

SEQUENCE LISTING

<110> Gorlach, Jorn
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 Price, Jennifer L.
 Raines, Tracy M.
 Yu, Yang
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 Matthew, Abraham V.
 Ledford, Brooke L.
 Woessner, Jeffrey P.
 Haas, William David
 20 Garcia, Carlos A.
 Kricker, Maja
 Slader, Ted
 Davis, Keith R.
 Allen, Keith
 25 Hoffman, Neil
 Hurban, Patrick

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15 <213> Arabidopsis thaliana

<400> 16

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<211> 1288

25 <212> DNA

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<220>

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<223> n = A,T,C or G

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55  <220>
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5 <222> (1)...(1278)
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<210> 23

<211> 1276

<212> DNA

35 <213> Arabidopsis thaliana

<220>

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15 <211> 1270

<212> DNA

<213> Arabidopsis thaliana

<400> 24

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20	ctcaacctcg	aggggtgattg	tcttgccagt	gagtgttttc	acgaagattt	gcatcttgaa	1200
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<211> 1250

25 <212> DNA

<213> Arabidopsis thaliana

<220>

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30 <222> (1)...(1250)

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	aggatgaaca	atcttgatct	ctccaaagg	tacactgagt	ttagaccaag	tgagaaattc	180
	agtttccagg	agaacaatct	taacttcaac	atgttggaat	tggatggtaa	atttgggtgaa	240
	agcatcatgg	ggaagacttc	gatgcagagc	aatgtttata	atatgaatac	tgttttccag	300
	agaatgact	ttaagagtgg	aggcaacatg	aaagttaaca	agtataatgg	taatgttggt	360
40	gctaacaagg	agatgagcaa	caacaaacat	aacaacaact	gcaatgataa	tggaatatg	420
	aatttggtctg	ttgacaagag	gtttaaaacc	ttgccagctt	cggagactct	tccgaggaat	480
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	aagaggctct	gccgaataag	cgactactct	tggtctgtgt	cgtgtctgat	gtgtgagtgt	1140
	gtgtctgtgt	ttgtgagaga	ttcgatactc	tttgaaacaa	agatttatgt	agaagaatat	1200
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<210> 30


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    tctatccctt aaagtttcgg aaaattctgt tttctgttct tcattcttcg tgatcttttt 180
    cactttcttc aaaaaaaaaa catgtgtgga atacttgccg ttttaggatg ttccgatgat 240
    tctcaggcca agagagttcg tgttcttgag ctttctcgca gattgaggca cagaggacct 300
15  gactggagtg gcttatatca gaacggagat aattacttgg cccatcaacg tcttgccgtc 360
    atcgatcctg cttccggtga tcaacctctt ttcaacgagg acaagaccat tgttgtcacg 420
    gtgaacggag agatttataa ccatgaggag ctgagaaaac gtctgaagaa tcacaagttc 480
    cgtactggta gtgattgtga agtcattgct cacttgtacg aggagtatgg tgtggatttt 540
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20  atgggtggctc gtgatgcgat tgggtgtcact tcgctctaca ttggttgggg actagacgga 660
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    ttctcgggtg aggacgggat tgatgcgata gaggatgtga tttaccatgt tgagacctat 1140
    gatgtgacga ctatcagagc gagcacaccg atgttcttga tgtcccgga aatcaagtct 1200
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   <210> 31
   <211> 1245
   <212> DNA
35  <213> Arabidopsis thaliana

   <220>
   <221> misc_feature
   <222> (1)...(1245)
40  <223> n = A,T,C or G

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45  ctgtataaac gccaatattca ttaacaaaaa aaaaaaacia aaaaaaactg tccacatgaa 180
    cacaagtaag aaccaacaac agcttcttca aaatgcttat tgcaatctcc acttatacgt 240
    tatctaaacc atcactctgc aattcatctt tgttccttgc aggaaccaat ctttccgttc 300
    ctagtctctc ctctagagct cttgcccctc tttctctcct cctggatgct tcagcagaat 360
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    taattgaggg naaccacttt gcttttatct ttaacagcaa tatctcctgg tcaggtatta 720
55  tctgctttat cctacaaga aggcctgcc aagacaccat aaaannagca aagggcatat 780
    ataggtaaac ttccagcctc gttatgtagt ataaggcaat ggctgtaacg aaaacacaga 840

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5  gatacgttaag gaagttcacc acaaagatga acttaaggaa ctccgtggaa cccagacag 900
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10 aactcatgtc tccagacttg agcaagagt taacaacaaa tctgagatcc tgacgataga 1200
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<210> 32

<211> 1245

15 <212> DNA

<213> Arabidopsis thaliana

<220>

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20 <222> (1) ... (1245)

<223> n = A,T,C or G

<400> 32

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   ctctctttct cctctcacac tcacgaagca aagactgaag caaaatacag ataaaacttg 180
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   gccaaatggt cagcaagggt ctctatcggg cccttaccag tgacgatggc ttgaacgaag 300
   aatccaaaca tagagaacat agccaatctt ccgttcttga gctccttcac cttcaactca 360
30 gcgaatgect ctgggtcggg agccaaaccc aatgggtcga agctgccacc ggggtaaagc 420
   aagtcctcgg cctctcccaa tggcccatth cctgcgactc tgtagccttc aacgggtccc 480
   atcaaaataa cttgtgtggc ccaaattggc aaaatgctct gagcgtgaac caagctaggg 540
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   gcctctccga acttgactcc gttcctagcc aaaagctcag ggaagacgca gcctagggct 660
35 ccgagcatag cccacctgct gtggataact tctagctcac gggtccttgc gaatgtctcg 720
   gggtcagctg aaagtccggc ggtgtcccat ccgtagtctc cggggaactc tccggtaagg 780
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   taattcatga tgccnnnnnt attctaattg tgtttcttct ttaagaaaacg tcgactataa 1200
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45

<210> 33

<211> 1244

<212> DNA

<213> Arabidopsis thaliana

50

<220>

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<222> (1) ... (1244)

<223> n = A,T,C or G

55

<400> 33

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   cgaatttggt tctcttctcg attcaaccat ccgaaaacaa gaatacaaaa agagaagata      180
   atcgcggaaa cagattacgt aatagaagct tgagttgttt tgtttctatt tcttttcgag      240
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   ggtcaacgcg gtctcatcat caatcttggt gcttcagtt agaaactcaa gctcaacatc      600
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   accgcctgga gctttgagga atccaggagc ttcggcgaga gagacgcctg attcggtagg     1140
   gacgaaatcg attagcatct cgccgaagct aacgatcagt cctttatcac cgttggtatg     1200
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<210> 34
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30 <213> Arabidopsis thaliana

<220>
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35 <223> n = A,T,C or G

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10 <212> DNA
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    <211> 1228
    <212> DNA
    <213> Arabidopsis thaliana

40 <220>
    <221> misc_feature
    <222> (1)...(1228)
    <223> n = A,T,C or G

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   acgtaccctc tggagttcca aggaccaggt cacggatgtg gtcacaagca gagctagcag 480
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	ctggaggaat	atccaacatg	tggaggataa	caggttggtc	agcaccaagc	atgatacccc	1140
	ttgcaatcat	aggtacaaga	gcataatcca	tttgtcctgc	agctccagta	acgagcacac	1200
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<210> 37

<211> 1226

<212> DNA

20 <213> *Arabidopsis thaliana*

<400> 37

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25	cacgtcactt	cctagctctc	tccgttctct	tcctcctccc	tctctgcttc	tccatcacag	180
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45 <210> 38

<211> 1220

<212> DNA

<213> *Arabidopsis thaliana*

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	agaacactaa	caataagggt	tgggaagagt	tatggcaata	aacaaagatc	tctccctatg	240
55	tgaataataa	tcataagagg	tggtgaagaa	aaaaagaaga	agaagaagac	aaaacatgag	300
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25  <220>
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35 catgtgatcc agcaaacggg ttaacccgga cgctccggtt ctgtcggggc aatgtaccga 240
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5 <213> Arabidopsis thaliana

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	aagaagccaa	actcttagtg	agcgttgctg	gtgatcaagc	cctcgaatat	gacgtagaga	240
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<211> 1205

<212> DNA

<213> Arabidopsis thaliana

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15

<220>
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<222> (1)...(1203)
<223> n = A,T,C or G

20

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25 cttaattagc atcagaaaca gagctttata ttctaaaacc gcacatcatc cggttgatata 240
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<210> 43
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55

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 <212> DNA
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 55 <213> Arabidopsis thaliana

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<211> 1195

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30 <213> Arabidopsis thaliana

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5 tcaactgtttg aagaactcgg tctttactat attgggtccag ttgatgggca caacatagat 1140
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<210> 47

<211> 1191

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

15 <222> (1)...(1191)

<223> n = A,T,C or G

<400> 47

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 cctgcccga gatatagtag tgcataagcc agagcgctct attagccca acgcctggta 180
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 aatcaaagta acgactgcat gagtatcgct aaccgagcac ctcaacagag agttcctccc 300
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40 <210> 48

<211> 1191

<212> DNA

<213> Arabidopsis thaliana

45 <400> 48

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5	gaaacctata	aaaccattgc	ctcttcaaat	cctccacggt	tgctcttctt	ccacactttg	720
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	gagccaagag	agcaagagaa	tgaacagtga	aagaagctga	gaatttcaca	taatctaata	1080
	tcctccacct	tctatcccaa	aacacccatc	tcctcttctt	cttctcctcc	tcacccgccc	1140
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15 <210> 49
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 <212> DNA
 <213> Arabidopsis thaliana

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 <223> n = A,T,C or G

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	tatttcatgg	aaaatctcag	ttcatcaaac	gccccaaaaa	gaacaagtgc	taaagctgaa	180
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	tgagctccac	caagcggctg	atggatcatt	atccttgagt	ttggtagact	gtatcttttt	480
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35	gtnnncacat	caggccnnat	gtgcctcata	gtatcgaata	tagccatgcc	agctgtaact	600
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	caagcatgag	ccattttctt	gttatcaatt	tggggatgaa	tgaaacccta	gttccgttca	1140
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<210> 50
 <211> 1181
 <212> DNA
 50 <213> Arabidopsis thaliana

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55	ataagacaac	ttatatattc	ccattaccag	ctctagttaa	acgcaccaca	atcacgacgg	180
	atgtttccat	tgctgctatt	cttaactcca	acacggccaa	gtttgggtcat	ggctatcaca	240

5	aaagcgcggt	taaaggccgt	agagtttgag	gcccagcat	taacgggtggg	cctagagcga	300
	ccatccgtga	agagaacttg	atcggaggtg	aagagacctt	tgcccttggtg	aagattcttg	360
	aagtaagtgt	tgtcaaactg	cttggggcgtg	actgggtcca	tggtgattgc	aattcttggg	420
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	gtgaaaagag	cattaagttt	gtctacattg	tccgaaggtc	ctggtaagtt	cccttcgaca	660
	cttgacgcgg	ttgataccaa	accatcgaac	ctaccaagtt	caacttcata	ggacggtcct	720
	ccagccgcaa	caacaacatc	tcgggtggcc	aaagtaagaa	tatcggcaca	tgagaccttg	780
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	tgttcgacat	tggggcaagt	tttggagtag	aaaccgcggc	ttagttgtgc	ggtggttgta	1080
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<210> 51

<211> 1179

<212> DNA

25 <213> Arabidopsis thaliana

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<222> (1)...(1179)

30 <223> n = A,T,C or G

<400> 51

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35	aagaaatggt	tcacaagaaa	acagagtgtg	tagtggttat	ctagactgga	agttgagagt	180
	cttgatgcaa	aatgcgaaga	tgaaggcaaa	aaagacagtg	aagccaacta	gtactccggc	240
	cacaggtccc	atgtagtctg	attcaaaacc	atattgatct	ttaatgtact	gtttaacagt	300
	gaggccaggt	gcaccaccaa	ggagagcgat	gggagtctca	acgtcaccgt	attgagaagt	360
	gatcaaaccg	tatatggtcc	aagcaacagg	gcagatccag	taataccaaa	cccaccactt	420
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	tgatgcaaag	atagaagcta	cttggttggt	aggtgtgagg	gaaactgtca	tcatgccgta	540
	gtaggtccag	tagaggaagg	agaagtaatt	gatgaagata	aaccacaaga	acttggaagc	600
	tttccactcg	aatccaacca	tagagtagat	gatangnnnn	tagtacgtgg	tctgaatcaa	660
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	ccgctggcat	aaggctgaag	ccttatatag	ctcagcaaag	tcaactccaa	gctttaactc	1140
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<210> 52

55 <211> 1179

<212> DNA

5 <213> Arabidopsis thaliana

<400> 52

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10	tcagggccag	aacgaatgac	tagctggtct	cgggcttttt	catcagtaag	ccatttttgc	180
	aaattttccc	cagggacgta	gggcctggcc	tgaggaggct	cccactcctc	cttcacattc	240
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	tagccatgag	acttttccgc	gacggtggat	gatctgctgg	cgatgcaagc	ctgcaatctc	360
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	cattaaggct	ttacaactta	agctggaaat	cttctatctg	caagatagca	gatctctatt	1140
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<210> 53

30 <211> 1177

<212> DNA

<213> Arabidopsis thaliana

<220>

35 <221> misc_feature

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<223> n = A,T,C or G

<400> 53

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	cacaaatgga	ccgaccaga	agatccactg	atcatcccaa	gccttttgat	tgttgtagat	420
	gacggcagct	ccaaaactcc	tagccgggtt	tattccgggtg	ccagtaattg	gaattgtggc	480
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	caaaacagtc	acgtatagaa	agagcaaagt	agctatgaac	tcagcgatga	cagctctgta	1020

5	gaaggaccac	nncttgagct	ctctcacctc	gaacgtcttc	acaggcggtg	ggtctaagta	1080
	gtccttgcoo	gagagcgact	cttcctccgt	caactcatcc	ttcgtcatte	tttcagactt	1140
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<210> 54

10 <211> 1177

<212> DNA

<213> Arabidopsis thaliana

<400> 54

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	atagacattt	caagatcgga	gatttagtaa	ctatgaccat	tctgtctctg	cagcactttg	180
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	tgacttctat	cgacgatttc	cacgtcaccc	tccgtatgaa	ctactctact	gatgatttcc	1140
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<210> 55

<211> 1174

<212> DNA

<213> Arabidopsis thaliana

40

<400> 55

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	gacacagaaa	atgtttgatt	tatctttttg	actttttgta	tcaaaaaaaaa	agaaaaaaaa	1140
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10

<210> 56
 <211> 1168
 <212> DNA
 <213> Arabidopsis thaliana

15

<220>
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 <222> (1)...(1168)
 <223> n = A,T,C or G

20

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 <213> Arabidopsis thaliana

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<211> 1167

20 <212> DNA

<213> Arabidopsis thaliana

<400> 58

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45 <210> 59

<211> 1167

<212> DNA

<213> Arabidopsis thaliana

50 <400> 59

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	ttccctgtaa	aagaacaggt	caaccatgac	atcccacttc	tgtccagcag	caatgggtcc	540
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 <212> DNA
 <213> Arabidopsis thaliana

25 <220>
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 <212> DNA
 55 <213> Arabidopsis thaliana

5 <220>
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 <211> 1163
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35 <213> Arabidopsis thaliana

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<211> 1162

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<211> 1161

<212> DNA

<213> Arabidopsis thaliana

45 <220>

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 <212> DNA
 55 <213> Arabidopsis thaliana

5 <400> 66
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<211> 1156

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30 <213> Arabidopsis thaliana

<220>

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<400> 67

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<211> 1153

10 <212> DNA

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<220>

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15 <222> (1)...(1153)

<223> n = A,T,C or G

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40 <210> 69

<211> 1150

<212> DNA

<213> Arabidopsis thaliana

45 <400> 69

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 <212> DNA
 <213> Arabidopsis thaliana

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 45 <213> Arabidopsis thaliana

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	gttacaagat	tcagtcagat	actgatgccg	gtggcgtaga	ttgcggcgga	gttggaatcc	300
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<211> 1145

<212> DNA

20 <213> Arabidopsis thaliana

<220>

<221> misc_feature

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25 <223> n = A,T,C or G

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<210> 73

50 <211> 1145

<212> DNA

<213> Arabidopsis thaliana

<220>

55 <221> misc_feature

<222> (1)...(1145)

5 <223> n = A,T,C or G

<400> 73

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35 <221> misc_feature

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<211> 1135

<212> DNA

20 <213> Arabidopsis thaliana

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<211> 1132

50 <212> DNA

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<223> n = A,T,C or G

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<212> DNA

30 <213> Arabidopsis thaliana

<400> 81

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<211> 1129

55 <212> DNA

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 <223> n = A,T,C or G

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<210> 84
<211> 1128
<212> DNA
<213> Arabidopsis thaliana

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<210> 85
<211> 1127
<212> DNA
35 <213> Arabidopsis thaliana

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<210> 86
 <211> 1125
 <212> DNA
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 <222> (1)...(1125)
 <223> n = A,T,C or G

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	aggtcactgc	420
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	ntcttccttg	720
	ttttgcttca	780
35	ggaaagagca	840
	gggaggtgac	900
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	tctcccagaa	1020
	tggtccttgg	1080
40	tgctgccttc	1125

<210> 87
 <211> 1124
 <212> DNA
 <213> Arabidopsis thaliana

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<220>
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 <223> n = A,T,C or G

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	caaatgcagt acgagagatc acanctgcag tcatactcac aagcccaggc caaacgtcta	1080
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	gccgactgcg	atcgtgagtt	cgcccatgcc	ccagaacagc	gctacaaggc	tgccgctcgc	960
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	<212> DNA						
	<213> Arabidopsis thaliana						
55	<220>						

5 <221> misc_feature
 <222> (1)...(1106)
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 aagtgggtgac aagattataa tgccaccatc agcccttgat cgtctagctt ctttgcagat 180
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 agtccttgag ttcacgcgag aagaaggcgt gatttacatt ccctactgga tgatgcagaa 300
 15 tttactgttg caagaaggag acatgggtgag agttagaaat gtcactcttc caaagggaac 360
 ctacgtgaaa ctgcaacccc acacaacaga ctttctcgat atagctaacc cgaaagccat 420
 cttggagacc gcattgagga actattcatg tctaacggtc ggagatagca ttatggtccc 480
 atacaacnat aagaaatact tcatagacat agtggaggca aagccttcta atggtattag 540
 catcattgaa actgactgcg aggttgattt cgcacctccc cttgattacn nnnnaccgga 600
 20 acgacctgta gcacctgctc cagccaaagg tgaagcaaaa gctaaggagg ttgatgtggc 660
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30 <210> 99
 <211> 1106
 <212> DNA
 <213> Arabidopsis thaliana

<400> 99
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 atacaagcat aagggaacga tagaggaaag aatcaaaggg ataggatttg atatgatata 180
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 40 aaagcatcct ttataagtgg agtgagttaa tcatatggaa caagtgtagc cggagggtgg 300
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55 <210> 100


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   <213> Arabidopsis thaliana

   <220>
10 <221> misc_feature
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   atcctaaccg tccaatcgct agtttcatat tctcgggtcc aaccggtgtt gggaaatctg      180
   agcttgccaa agcttttagca gcttactact tcggttccga agaagccatg attcgtctag      240
   atatgagtga gttcatggag aggcacactg tctccaaact catcggttca cctcctggat      300
20 atgtcggata caccgaagga ggtcagttaa nnnnnncggt agacgtcgcc cttacaccgt      360
   cgttctattc gatgagattg aaaaagccca tccagatgtt ttcaacatga tgcttcaaat      420
   ccttgaagat ggtagattaa cagacagcaa aggaagaaca gttgacttca aaaacacact      480
   tctcatcatg acatcaaacg tcggaagcag cgtgattgag aaaggaggaa gacgtatcgg      540
   attcgactta gactacgacg agaaagacag cagttacaac agaatacaaga gccttgtaac      600
25 agaggagctg annnaatact tcagaccgga gttcctaaac aggctagacg agatgattgt      660
   gttcagacag ctaacaaagc tggaagtga aaaaattgct gacatactgt tgaaggaagt      720
   gttcagagag ttgaagaaga aagagattga gcttcagggt accgaaagat tcaaagagag      780
   agtagtagac gaagggtata acccgagcta tggagcaaga ccggttgagaa gagccatcat      840
   gaggctttta gaggatagta tggcagagaa gatgcttgcg agagagatca aagaaggaga      900
30 ctcggtgatt gtggacgttg acgctgaagg taacgtcacg gtgctaaatg gtggaagtgg      960
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   agcaaagtgc gtgcgtttct ctcttctttt gctttggccc ttaaatgaat tatggcaaga     1080
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35 <210> 101
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   <212> DNA
   <213> Arabidopsis thaliana

40 <220>
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   <223> n = A,T,C or G

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   cttcatagag atttttaaag cagaaagatt acaaaatctg aagatcagta gttcagtaga      180
   gataaacttt cactgattca cagattattg cataacaaaa aaaggaaaat gaaagattgt      240
50 aagaacttgt tcacttcttt gaagaaactg ttgatgaatc tggctctttc catgcagctt      300
   gccattgttt gtcataatac gtagtctcat cgaacagatc cttaagtttg tctaaatctt      360
   cattcttacg gatgaagaga actccagcta cagccacaaa caagagtgtt ttgcagaaga      420
   aattcccatc ttgatcaaca agtcctactc cggttaagact atcaacaaag taagccatga      480
   agaaccctat catcgagca cgaccattga gaagttcagc ttcaggtaga tggatatctc      540
55 tcatccatgc ccancatgga ataatcgaag tatcgaagac aacaagctcg tcgttactcg      600
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5 cccaatcagt tttgccatct ttctcgaact gtttcagatc ccaagttcca ttaacccact 720
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15 <211> 1100

<212> DNA

<213> Arabidopsis thaliana

<220>

20 <221> misc_feature

<222> (1)...(1100)

<223> n = A,T,C or G

<400> 102

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 aaggtgccgt gaagaagaag agaaaaccca ggagagggtga ggatttcaag tttggccaag 180
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45 <210> 103

<211> 1098

<212> DNA

<213> Arabidopsis thaliana

50 <220>

<221> misc_feature

<222> (1)...(1098)

<223> n = A,T,C or G

55 <400> 103

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   tcgccacttc agcactcgct caagccccctg ctccctactcc caccgccact cctcctccccg 180
   caactcccc tccagtcgca actcctcctc cagtggctac cccaccacct gctgcaaccc 240
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   ccaacaaggc tttcttcgcc ggaaccgcct tcgcgcctat tatgtacgcc gccgttttgg 480
   cttgagaact ttttttatat aatttttttt ttatccctca aattatttca aatcttttgg 540
   gttaatgtga gaatttgatt tatttttcgta tttcgctatt tgatcgtaa ttttttttat 600
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   gttgacacgt gtaatttacc attggaaggg cttcatatgg ttgtgtagag gaggtggaat 720
   taatctgttt atgtaaatcc aatgataata aatcaatttc aaaaaaaaaa aaaaagggtg 780
   gccgcnnncc atctagaact agtctacaag tagagtacat gacatgtcct tctctccgcg 840
   ctgacaagct tctccaaga tgcaactgtt gtcttgctcc caaaaattgt actctccatc 900
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25 <210> 104
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   <212> DNA
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30 <220>
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   <223> n = A,T,C or G

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   tatgttgatt gttcatgctt tatagtagtg tgtcctccac gaggcctttg tgagagacga 180
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   tggcctttgn cgacaacaac cacagattcg cattctccag caaagtcnnn agcgtcagtg 480
   tattctttgc tctttaagaa tctcatcacn ngtgcttttg gtattggctt acccatctct 540
45 tcgtaatact tgacgatgtc ggtccatctc tcaggagaat aatcggattc gtcgagagaa 600
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   ttcattctcc acttctcgtc caagtgatcc agatgagtgc agtgaaactc cacttccccg 720
   ctcccgggaa cctctatgct cgccttcaac acgttctga aatcagtgtg gtcgaagatt 780
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   tactcagca cttccagagc cgttctggtg ctccggagac cgatctcgcc gggcctgagg 1020
   ggagagtgtc gtggatcctc ccggaagctg agctggcggc tgatctcggt gtcggggaga 1080
   ttgatgcgga cgcgtgg 1097

55 <210> 105

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30 <210> 106
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 <212> DNA
 <213> Arabidopsis thaliana

35 <220>
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 <222> (1)...(1096)
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 ctcttaatta gtcaacgac atttcacata aacttttatc gagctactta cttatcatag 180
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<220>
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40 <210> 108
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45 <220>
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 55 tcgtctccac cagcaccagg tttggcagaa ccattcgtct tatgagcatc gtctcctcct 300
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	cctgatttga	actcagcaag	atagcggtaa	tagtcanntt	tcatcnngtt	gaagaagaca	660
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	atgcatatgt	tagaaagctc	taactcaann	ttctccatat	actctttgat	cctctttaca	780
	ttaacatcat	tccctttcac	tgcttccttt	tgttcaatcg	acgagaagat	cctccacgaa	840
	gctctccttg	aaccaatcac	gttcttgtaa	cccacagaga	gtaagttcct	ctcttccacc	900
	gtcagatcaa	cattcaattt	cgcaacactt	ttcattgatt	ccaccatttc	ttcataacgc	960
15	tcagcttgct	cagagagctt	agcgaggtag	acgaaagtgt	cacgctcttt	tccagaaccc	1020
	atgacnnntt	caagattctc	gaaaaatcaa	aagtatcaaa	ttccaaagct	tttgacgact	1080
	gatccgagta	tgta					1094

20 <210> 109
 <211> 1093
 <212> DNA
 <213> Arabidopsis thaliana

25 <220>
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 <222> (1) ... (1093)
 <223> n = A,T,C or G

30	agtcaccatg	ttttacgacg	cgtgtctctt	tttcagccgg	ttttcttctc	gctgggttaca	60
	tcagagcttc	ggagatatta	tataactcaa	cgacgtagct	gttgcatttt	ttgtttttgc	120
	aatgatcttc	atcttcatga	cgggataaac	tcttagagaa	agattcaaag	tgattatctt	180
	tgtggatccc	tccattgcta	tgtggaattt	agcttcaaaa	tcgatcagag	aagggttttat	240
	atcgaaggga	gaagaagctg	ctacaaaacc	aagaagagct	acttttagata	gatcaggaga	300
35	tggaagaaaag	acaacaaaagg	aagaaaaatt	ggagtgtccc	atttgctggg	aatcattcaa	360
	cgttggtgag	aatgtacctt	atgtcttatg	gtgtgggtcat	acaatctgca	agtactgtct	420
	cttagggctt	caacgtgccca	ttgtcatcaa	atcctctgct	ttaccattcc	agcttccctt	480
	cttcgttgct	tgcccttggt	gcaatattct	ctctnnnnnn	ctggtttgca	atggaaccat	540
	cagatttcct	tccaagaact	tttaccttct	gtggatggta	gaaagcatga	atggctccag	600
40	atcngannca	cccagcgaca	nnaaaagggg	tgcttcaggg	cagagagact	tgagaaatag	660
	gtgtgatgga	atgagtaata	cgccttggg	tgatgaaggg	ttgctggaca	annncagctg	720
	gtggaatggg	gtgaccagag	gattcttcag	aactgggagg	ctccatgact	cggtagcgtaa	780
	gtcaatggct	cttggtgctc	atgtgttggt	taagtttctt	ctggtagtca	tattcctggt	840
	gatggcttta	tatgcaatcc	ctgtgagtgc	tgcagttctc	ggggtttatt	tcnntgttac	900
45	gtttgctttg	gctgtcccgt	cgtttctcgt	cctttatatt	gccttcccga	gcttaaactg	960
	gctgatcaga	gagattgcaa	cctgactcat	tgtactgttt	ctttcttctt	gtatgtttcc	1020
	tgacttgtaa	gaaacacgag	atagagccaa	cgttgtttac	actcaatata	gacaagaaga	1080
	agagaagatc	ttt					1093

50 <210> 110
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 <212> DNA
 <213> Arabidopsis thaliana

55 <220>
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5 <222> (1)...(1091)
 <223> n = A,T,C or G

<400> 110
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 atgctcgaac gaacgcgcga ttctcttcaa ccgcattgct ccagtttacg ataatttgaa 180
 tgatctctta agcttaggcc agcatcgaat ttggaaaaac atggctgtct catggagtgg 240
 agcaaaaaaa ggagattacg ttcttgattt gtgttggtga agtgggtgatt tagcgtttct 300
 cttatctgag aaagtgtggt caactggcaa ggtttatggt cttagaaatg tgtagcttgg 360
 15 cttgattgta aaattgttgt tctgataact tggtaaatatt attatagggtg atgggcttgg 420
 atttctcatc tgaacaacta gctgttgcag caactagaca gagtcttaaa gcaaggctctt 480
 gttacaagtg tatagagtga gctcactggt ggattgaagg tgatgctatn nntnnnnncat 540
 ttgatgattg tgaattcgan nnnnttncga tgggttatgg tcttcgannc gttgttgata 600
 gacttanagc tatgaaggag atgtatcggg ttttgaaacc aggttcaaga gtatctatac 660
 20 ttgannncaa taagagcaac caatccgtta ctacgtttat gcagggctgg atgattgaca 720
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 ggtaaaggaa tagcgcgttt gactacactt ctacaccaga tatattgaca caatctttat 960
 25 ctggattttt ataagaaaag agaaacgctt tgcgttagga tgatgcagat aatgtagagg 1020
 aattcatttt tatctgtata acttacttgt ttgatcaaac tgtcaatgta atctgtttct 1080
 gatcccaaaa a 1091

<210> 111
 30 <211> 1091
 <212> DNA
 <213> Arabidopsis thaliana

<400> 111
 35 ttatctttat tccccttga gttatctccc ttttcgcttc ccaggatgtt gtggagatcg 60
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 ttcaaggaga tggagataaa gtttgtaacc gggatcttaa agtgacaaaag cgtatgaagc 180
 aacctatcta tgtttattac caacttgaga atttctacca gaatcaccga aggtatgtaa 240
 aaagtcaag tgattcacag ttgagaagta caaaatacga gaatcaaata agtgcattgca 300
 40 agcctgagga tgatgttggg gggcagccga ttgtgccgtg tgggtctaatt gcttggagtc 360
 tttttaacga cacatacgcg ttatcaagaa acaatgtaag cctagctgtg aacaaaaaag 420
 gcattgcatg gaagagtgc aaggaacaca agtttgggaa caagggtcttc cccaagaatt 480
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 aagaagatct cattgtgtgg atgagaaccg cagcattgcc aacatttaga aaactttacg 600
 45 gaaagataga gtctgacctc gagatgggtg acaccatata cgtaaagctg aacaacaact 660
 acaacacgta cagcttcaat ggaaagaaga agcttgtttt gtcaaccact agttggctgg 720
 gtgggaagaa cgatttcctt ggcattgctt acctgacagt tggcgggacg tgtttcattt 780
 tggccctcgc atttaccatc atgtaccttg tgaaaccagc gcgtcttggg gatccgtcct 840
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 50 ctctaactcg cgtgtgtaaa tcttatccat ccatgtacac atacaatgta atttttgctt 960
 acatactatg taatccttgc ttgcaaaatg gtttcttcgg tgagagctta aatcccacat 1020
 aatactttgt tgttgttgtt ccaaaccagt ctaatatatt acttttgtcc ccaaaaaaaa 1080
 aaaaaaaaaa g 1091

55 <210> 112
 <211> 1090

5 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature

10 <222> (1)...(1090)
 <223> n = A,T,C or G

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 atatgaatct tcatgaggaa gaagaagacg acgacgccgt ttacgactct cctcctctct 180
 ctctgtgttct ccccaaagcc tgcacagaaa gtcattgaaac caccggaact acttccacag 240
 gcggtggcgg aggtattcatg gttgttcacg gcggtggagg gagcagggtt aggttccgtg 300
 agtgtctcaa gaaccaagcg gtgaacatag gaggacacgc ggtcgatggt tgtggtgagt 360
 20 ttatgccagc tggaaatcgaa ggtaccatcg acgctctaaa atgcgccgct tgtggctgtc 420
 accgtaactt ccaccgcaag gaattacctt acttccatca cgcgcccgcca caacatcagc 480
 ctctctctcc cccgccaggg ttttaccgtc ttccagctcc ggtagctac cgaccaccac 540
 cgtcacaagc tctctctctt cagctcgctc tccccctcc acaaagagag agatcagaag 600
 atcnnntgga gacgtcttca gctgaagcnn gannnnnnnt tnnnnngang catangacta 660
 25 agtttacggc tgagcaaaaag gaaaggatgt tagcttttagc tgagaggatt ggatggagaa 720
 ttcagagaca agacgatgaa gtgattcaga gattttgtca ggagactggt gttccgagac 780
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 accaaccatg aatcttgaat ttctttgatc actaggggtt taatttagct taattaatta 960
 30 cttgagaaat ttgagagaca aggtttttat tgtttaattt atgtacccat tttcctcttt 1020
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 tagtagctta 1090

35 <210> 113
 <211> 1090
 <212> DNA
 <213> Arabidopsis thaliana

<400> 113
 40 gtacgccgca ccgtagcgac caattgaatc caccaggaaa tctcagtaaa tactatggcg 60
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 gacaccggag ctacggtcgc tccgatcggt aggtctgagg aggttgccgt cactaccggc 180
 gaggaagacg aagatgccgt ccttgatctg aaatcgaaac tttatcgatt cgataaggat 240
 gcgaatcagt ggaaggagag aggagctggt actgtgaagt tcttaaagca taagaacact 300
 45 gggaagattc gtctcgttat gaggcaatct aaaactttga agatctgtgc taatcacttc 360
 gttaaatacg gcatgagtgt tcaggaacac gttgggaatg aaaagtcag tgtgtggcac 420
 gctcgtgact ttgctgatgg tgaactcaag gatgagcttt tctgtatccg atttgcttct 480
 attgagaatt gcaaaacatt tatgcaaaaag ttcaagggaag ttgctgagtc tgaagaagag 540
 aaagaagaga gcaaaagatgc cgtgacact gctggccttc ttgagaaatt gactgtggaa 600
 50 gagacaaaaa cggaggagaa aaccgaagcg aaagctgtgg agacggcaaa gactgaagtg 660
 aaagcagaag aaaagaaaga gagcgaggca gagaaatctg gtgaagcaaa gaaaacagaa 720
 gaaagtggtc cctcaacata agaagcgtca tcatttaagt tgccaaatcc tggcgaggta 780
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 55 tgaatgctga gtcgttatgg gtctaatagt ttttgagtct aaagtgtcgg gtgatatgag 960
 agatttgggt gaaatatattt ttcattgttg ttatctgaaa gactacattg gtttcattgt 1020

5 ttttaagttttt ctcatggatc ctttttggat ggtcttattt tgaggataca aatgtgtttg 1080
 tccatggaca 1090

<210> 114

<211> 1089

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

15 <222> (1)...(1089)

<223> n = A,T,C or G

<400> 114

20 ttttttttta gacaagaaaa gacggagatg tttattagca cagcgcggtg gaactatctt 60
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 ttacatgatt gatacatcca ccaagacaat gactaaagag atagcctttc tctattcaac 180
 ttgtgaaagg agagaccctt ttcacgtctc tcattccctc attcgttctt tgtctactta 240
 catgtacact ctctcctaca tcttttttcc cattcttgca aatcttctgg ctactccgaa 300
 tatcaccgcc tttgtcaaca gccctttgtc caatgtacat gcaagtgcaa tcgcccctcc 360
 25 taccactagt atcttttggtg tggttttccc cgttggcttg tctcctgtaa cctctgctat 420
 cgaacccttc tcattcatga actcctctgc actcactttg gtgttgatat gagccattat 480
 ggcacttggtg gataaacctg ctcccgtgc tttggccctc tgatatgcac gtaggectgg 540
 ctcaattttc ttgactgcac cccacatacc ctgtctcacc ccgagctttg caatctccca 600
 gggatttccc atatcttcat ggtgaaatag tagtacctca catgatgtca tctcaccatc 660
 30 gccctttttc gattcaactg cacggatgcn ncagcttgna tagtacaagt cgactcgcct 720
 tggcttggtt tgtcttggtg cagatgggta ttgtaccccc ttagtaatgc agtaaaagac 780
 tcggccagca tcccataata gacggcctat aatatactct ctgtcgttac aaaagaagg 840
 gaactttcgg acccattgca caaccatagt gcccggtgtc tcgcaacgct cgagagtaga 900
 agaatacaaa agcatatcat cccacttgga acggaactca tcatcccaaa agaagtcctt 960
 35 gaccatctcg ggagtggcat cctcaaacac agttctgcta cggtagctgg gagggccatt 1020
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 aatccaaca 1089

<210> 115

40 <211> 1088

<212> DNA

<213> Arabidopsis thaliana

<400> 115

45 ttggggcaac aagcttctct tcttaccggc tgccaagaac atgtctatgc ttgtggttga 60
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 aaaggactca gaggtttttg aatggcaaga ccggatgaga aacctggaaa ggaagtggct 180
 tttctcggtt gcaggagccc cacgacctga caatccgaaa tctatcagag ggcagatcat 240
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 50 atgccatgca ccaagcagca ttatgcaaat gtttcaaagc tctctcttct gcctgcagcc 360
 acagggagac tcttacaccc gaagatcggtc atttgactca atgcttgccg gttgtatacc 420
 ggtcttcttc catccgggtt cagcctacac gcaatacacg tggcatctac ccaagaacta 480
 cacaacctac tcggtattca tccccgagga tgatgttcgg aagagaaaca taagcatcga 540
 ggagcgactc ctccagattc cagccaagca ggtcaagata atgagagaga atgtcatcaa 600
 55 cctcatccca aggtgatct acgcagaccc gagatcagaa ctggagacgc agaaagatgc 660
 atttgatgtc tcggtacagg ctgtgataga caagggtgact cgggttaagga agaacatgat 720

5	cgagggccga accgagtatg actacttcgt ggaggagaac agctggaagt atgcgttgct	780
	ggaggaaggc caacgggaag cagggggcca tgtgtgggac ccgttcttct ccaaaccaaa	840
	gcccggagaa gatggcagca gcgatggtaa tggaggcacg actatttcag cagatgcagc	900
	taagaattca tggaagagtg agcagagaga taagacacag tgaaaagaga cagaaaccac	960
	attttgttac ggttttgata tagttttcgg ttactattta tacggacaaa aaatgattta	1020
10	tttttgttgt attggtatca aatgtagttt ctccagtttc atagagataa gtttgtttgt	1080
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<210> 116

<211> 1088

15 <212> DNA

<213> Arabidopsis thaliana

<400> 116

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	ttaaaaaaaa aacagagaga tttatccaca caaagacaaa ccaaattgaa aaaaaagaat	180
	gaaaaataag tttttttttt ttgttctctt ccgtttcttc ctttcatttt tttgttacgt	240
	acaaagatgt tttcatacaa gagaagtaat cataccatct tgaaaacaaa tcaaggcttt	300
	ggtggttcag ccactggcgc tgtcgtcgtt gtctccggtt ccttaactgg agtttcaacc	360
25	actgccggag ccggagtagc ctcttctctt ttctctctta cctctggttt cttctcctcc	420
	acgaccgcgg tttcaggggt ctgcctcttc tttgtctctt caacaatctc ctctttctca	480
	ccacttggtc cttcgggttt ggtcgggtct tcagtttttg caggttcttc agctttcact	540
	tcctccaccg gtatttcttt agtcttcacc tcctccggga ggaaaacaga taccttctcg	600
	aatatgaacg tgaccgggtc tgcgacatag ccagctccga agctagacga agcctcactc	660
30	accgcttttg atccggggaa ttcaattttg actagctcct cgaggtactt ctgcacagcc	720
	gctgagtttt tcttcaaacc agccacctta gggctctctca ccaaagcctt gacttctgca	780
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35	taaccatctt ttttggtgtt taatctaaat taaacttctc aacgtgaaca aatttgaaac	1020
	gataaatctc tttagagatc tctcctcgta tttgatctgt tcttctacct gcccgggcgg	1080
	ccgctcga	1088

<210> 117

40 <211> 1087

<212> DNA

<213> Arabidopsis thaliana

<400> 117

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	aatcccacct caaacatgta cataaacgcg tttagaacat tgtggtttga aattattttc	180
	tcaatgtaac tcaaacatgt aacgaaagag aggggacaag acaagaggga gaagatgctg	240
	agcttgatgat ttgtgtatga tttccggtt agatatgacc ggcccaattt tgggagctat	300
50	cgactctagg cattttggta ccctctctct tagtctcagc gtcaaccttg aaggttgac	360
	cacacacgtc acctgagctg tccactctcg gcaactggtt caactcgttc tttgggtgct	420
	caaagctcct caatccacct gacgacgtaa agaaacaacc tttagggaaa ggaccataag	480
	atttggcgca acctttcttc accatctcgg tgttatcaga aaacacaagg tgccttcag	540
	catcgggttc ccagaagaac ggcacactcc catcggcgtc agcagcagca aagacagttt	600
55	tcttgacgct atcgaagagt ataaacgcaa actttccatg gaaatctcta acaactttgt	660
	ccacagggtg aggacctcga tcacgtagtg tctgtgaagc ctcaatcaca atgatggcct	720

5	cgtttgtgat	tttgttcagt	ccatactgct	gcttcagaaa	cggtaggttc	tcaatgtgtc	780
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	gattatcaag	agagtaagca	acaaatccag	aagatccgaa	gttaagcgtg	acggagttgg	900
	gattcacgga	agcgaaatga	gtagcgagag	atccatcttt	caacgcgaaa	gcagactcag	960
	acgagtgtgg	actctgtaaa	gcttcagggc	tattcgccac	cgtcttctca	aacacagcga	1020
10	gcatttttct	cagtgatgat	tttctcggga	aaataaaatt	tgcagaaaaga	agaaaaacgga	1080
	cgcgtgg						1087

<210> 118

<211> 1085

15 <212> DNA

<213> Arabidopsis thaliana

<400> 118

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20	ggattctagg	gctctctttc	ttttagtggg	tttttgttct	tgttgtggtc	tctctgatga	120
	ttactgaact	tgagatgggg	aaaggtgaga	gtgagcttga	gcttgggtcta	gggctgagtc	180
	ttggcgggtg	aacggcggcc	aagattggta	aatcaggtgg	tggtggcgcg	tggggagagc	240
	gtggaaggct	tttgacggct	aaggattttc	cttctgttgg	ttctaaacgt	gctgctgatt	300
	ctgcttctca	tgctggttca	tctcctcctc	gttcaagtca	agttgttggg	tggcctccta	360
25	taggttcaca	caggatgaac	agtttggtta	ataaccaagc	tacaaagtca	gcaagagaag	420
	aagaagaagc	tggttaagaag	aaagtgaag	atgatgaacc	taaagatgtg	acaaagaaag	480
	tgaatgggaa	agtacaagtt	ggatttatta	aggtgaacat	ggatggagtt	gctataggaa	540
	gaaaagtggg	tttgaatgct	cattcttctt	acgagaattt	ggcgcaaaca	ttggaagata	600
	tgttctttcg	cactaatccg	ggtactgtcg	ggtaaccag	tcagttcact	aaaccgttga	660
30	ggcttttaga	tggatcgtct	gagtttgtag	ttacttatga	agataaggaa	ggagattgga	720
	tgcttgttgg	tgatgttcca	tggagaatgt	tcatcaactc	ggtgaaaagg	ctacgtgtga	780
	tgaaaacctc	tgaagcta	ggactcgctg	cacgaaatca	agaaccaa	gagagacagc	840
	gaaagcagcc	ggtttagatc	tcttttcgac	gttacgggtg	tacaggtttt	atattttggg	900
	gttttgcaag	tctgagatac	ttctgaagca	agcataagct	agattgatct	tatatccagt	960
35	ttgtgtattt	tcttggttct	tataatgggt	tttactgggt	ttcttttagtt	tttttttttt	1020
	gctgtctttt	aattttcggg	tgcgatttca	ctatatacta	tggatggaag	agaatgctct	1080
	ttata						1085

<210> 119

40 <211> 1084

<212> DNA

<213> Arabidopsis thaliana

<400> 119

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	tcaaccttcc	ctgattcaga	tgaactgccg	tactttgaaa	gtgatacata	tgttgcatat	180
	aacaatgaag	atggaggagt	aattgaaaaa	ctgaagaaag	atgggattgt	taatctggac	240
	tctcagctac	agtctctttc	ggattattta	tctttgaagg	ctcttattgt	gtcttggcta	300
50	gaagaagcgc	ttacctatga	gatatgggtt	ggtaccgagg	ggatatctac	atcgaaaatc	360
	tactattcag	atcttccttg	ggtgatcagc	aaggtcctgt	tttataagca	gacatacttg	420
	gcaaagaacc	gttttaggaat	caccaaagag	aacgcagagc	aaagagaaaa	acagatatac	480
	aagagagcaa	gtgaggcata	tgaagctttg	tcgactaggt	taggtgagca	gaagtttctc	540
	tttgaagaca	ggccatcgag	tttggatgct	ttcttactct	cgcacatact	ttttataatc	600
55	caagcgttac	cagttacatc	agtgccttcg	tgcaaaactc	tggaaacatag	taatcttgtg	660
	cgatatgctg	agaaaactta	gtcagagttc	cttgaagcct	cttcttcata	tccttcacct	720

5	ccacttccact	cattcccttc	ctcattttcca	agaaagagtt	cgaagccaaa	gagcaaacca	780
	aaggtagaaa	agaccgaaga	ggagaaaaaa	tttaagaaaa	gagcaagggt	ctttctagct	840
	gctcagtttc	tagctgtcgt	cattttacgta	tcagtgatgg	gaggaggtag	ttctgatgaa	900
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	tctcaggcga	actctctgag	actaagataa	aaacataacc	agtaatctct	acgctttttt	1020
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<210> 120

<211> 1084

15 <212> DNA

<213> Arabidopsis thaliana

<400> 120

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	aaggttgaag	ctaagaaagg	agaatgggtg	cccggtttgg	catcgcctga	ttatctcacc	300
	ggcagtcctg	ccggtgacaa	tgggtttgac	ccgttgggtc	tagcagagga	tccagagAAC	360
25	ttgaaatgg	tcgtccaggc	agagctgggtc	aacggacgat	gggctatgct	cggtgtcgct	420
	gggatgcttt	tgcccggaag	tttcaccaag	atcggaatca	taaatgttcc	tgagtgggtac	480
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	ttgtttcatt	acgttgagat	cagacgggtg	caagacatca	agaaccggg	aagtgtgaac	600
	caagacccta	tctttaagca	atacagctta	cctaagggtg	aagtgtggtta	ccctgggtgga	660
30	atctttaacc	cgcttaactt	tgctcctacg	caagaggcca	aggagaaaga	gctagcaaac	720
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	ggaccatttg	agaatctgtt	gcagcacttg	tctgacctat	ggcacaacac	tattgtccaa	840
	accttcaact	aaagagtga	gacagactta	tgatctcata	cctatctatc	ttccatcact	900
	ttcatgtctg	tctgtgagtg	tgtttcatct	tagagttctt	ggtttttgag	cttgaattat	960
35	tgttgaaccg	ttgtagctcc	atgaacaaat	ttggaatctt	caatgtacag	aggaactaag	1020
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<210> 121

40 <211> 1083

<212> DNA

<213> Arabidopsis thaliana

<400> 121

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	caatccgccg	tgaggtctac	gaaggaggta	agatatacga	catcagccat	cgttacacgc	180
	cggagattcc	agcttgggaa	tcttcggaag	gattgggaaa	gacgttccctg	cgattagccg	240
	cgagtagtaa	gaatggatca	ttcgctaacg	tatcggagat	gaaactatct	gttcactctg	300
50	gaactcacgt	ggatgtctcca	ggtcactttt	gggataatta	ttacgatgct	ggttttgata	360
	ctgattcgct	tgatctccaa	gtcctaaatg	gtcctgcttt	gttgggtgat	gttccgagag	420
	ataagaacat	tactgctgag	gtaatggaat	cacttcatat	acaaagagga	gttcgtcgtg	480
	tgctcttttag	aacatccaac	accgacaagc	ggcttatgtt	taagaaagag	tttgattcaa	540
	gctttgctgg	gttcatgacc	gatggggcta	aatgggttgt	tgagaataca	gacatcaaac	600
55	ttattgggct	tgattatctt	tcatttgctg	cttttgagga	atcacctgca	acacacaggg	660
	ttataacttaa	aggacgggat	ataatcccag	tggaagcgct	gaagctggat	ggtgtggagg	720

5 taggaacata ctcgcttcat tgcttaccgc tgagattagt tggagcggaa ggagcaccga 780
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 aagcagatgt gatgattcag ttgtaaaagg aagcatacct ttataaacgt gtgaatgtat 960
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<210> 122

<211> 1082

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

20 <222> (1)...(1082)

<223> n = A,T,C or G

<400> 122

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 agcgcttttg tttggcaata tcgggatgca gatccaggct ttggttcttt acaagcgaag 180
 gaaatgctag agcatttaga gagtggttcta gctaattgagc cagtggcagt caaaagcggg 240
 cactacatag tagaagtcaa gcctcagggg gtgagcaaag gatccgtgtc agaaaagata 300
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 30 agatctgatg aagacatggt tgaagcgatt ggtaatgcga tgtcgaaaag gttactctgt 420
 gataatgctc tagtctttgc atgcacagtt gggcaaaagc caagcaaggc taaatactac 480
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 aatcaaacaa tcaaaggagg aggaaaatag atgtgttttg gttcatcagg gaaatgtgtt 840
 tgcaggatgt tgaagttaac aacaagcaaa agcttttcct gatctttttt ttttaattatt 900
 cttattacta ttattattgt tatttgaat tggatgatct cttgaggata tcaaatttgg 960
 40 attcggctgt ttattggatc tgaacgaaaa cgaaactgtg aagaaaatgt ttgtaaagat 1020
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<210> 123

45 <211> 1081

<212> DNA

<213> Arabidopsis thaliana

<220>

50 <221> misc_feature

<222> (1)...(1081)

<223> n = A,T,C or G

<400> 123

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5	aagaagaatt	caaaactatg	agaagaaaan	nngaagaaga	aagttgattc	gaaatctgaa	180
	aagcgaaatg	ggtaaanng	aagctctcaa	tcttcaacct	ttgggcctct	gtataacgct	240
	ccaactacgt	tagtatgatc	ttctggatta	tcatcccttt	cttgagacca	tgcataacct	300
	tcctttctct	cttcactgct	caaaacgtcg	tcgtcctctg	atgagagttt	gtctaaaggg	360
	aattctagga	aataagtgc	atgtctgcct	tctggattgc	agtaaggagg	tcctagcacg	420
10	tctagcaccg	cacatgctgt	tatagctgtg	aaccgatgca	tgttcccgcc	atcttccggg	480
	tacaaaatcg	aggcggttaca	tggcgcggtg	aatgttgaat	ccaccttcaa	tttcgctagc	540
	ctggtttttg	aatctctcat	tggagcatca	accaccaat	catatgactt	gatgtgcatt	600
	gtaccaaaaga	gaagcttact	aaaaactgtc	atccctggat	ggttatgaag	aggaataaca	660
	ccagaagggtg	gcaaacagaa	aatcccaatc	gagaattgat	cacactggtg	tagatgcaga	720
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	ttaaacaacc	gccgcaccgc	cgtgatccca	tccgcggggg	aatcaatctt	cttccgctcg	960
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<210> 124

<211> 1081

25 <212> DNA

<213> Arabidopsis thaliana

<400> 124

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	gcaagattat	acgtcgtttc	agtaccataa	aggagctctc	ctcaccggag	acgtttccat	180
	caacctaatc	tggtagcgta	agtttaaacc	gtcgcagcgt	gcaatcgtaa	ccgatttcgt	240
	tgttccctc	tcgtcttccc	ggagatcgac	catggctcaa	aatccctcag	tcgccacgtg	300
	gtggaagacg	gtggagaagt	attaccaatt	ccgcaagatg	accacgacac	gtggactcag	360
35	tctctccctc	ggagaacaga	tcctcgacca	aggatactca	atgggaaaat	ctttaacaga	420
	gaaaaacctc	aaagacttgg	ccgcaaaagg	tggccaaagc	tacgcggtta	acgtcgtgtt	480
	gacctcagct	gacgtgacgg	tccaaggctt	ttgcatgaac	agatgcgggt	cacacgggac	540
	tggttccggg	tcaggcaaga	aaggatcaag	attcgtttac	atctgggttg	gaaactcaga	600
	aacacaatgt	ccaggacaat	gcgcgtggcc	attccacgcg	ccggtttacg	gaccgcaaag	660
40	cccaccacta	gtggcaccaa	acaacgacgt	tggtttagac	gggatgggtga	tttaacttggc	720
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	aacggcaccg	cttgaggctg	gatcggcttg	tactggagtc	tatgggaaag	gttcgtatcc	840
	tggttatgct	ggagagttac	ttgtggatgc	aacgaccggg	gggagttata	acgttaaggg	900
	actgaatggg	agaaaatatt	tgttaccggc	tttgtttgac	cctaaaacag	attcttgctc	960
45	gactctgttt	tgaataccta	ttagtatacg	ttagatacga	tattctttta	tttatacttt	1020
	atatattcgt	ttttgtaatc	ttctttaatc	agtatgtaat	gaaattattt	gttattgact	1080
	a						1081

<210> 125

50 <211> 1081

<212> DNA

<213> Arabidopsis thaliana

<400> 125

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5	cgttgaaaat aaaggacttt attgatcgaa ataaaaaaga tagtggggttt cttttgaaat	180
	attattaata atgggtcggtg cgtgtaaatt tggaggcatg tttctgtata atctgccatg	240
	cttcagtgac atgcttctct tccgttaacg gtgcaccaac agcaaatcgt aaaacgaatt	300
	ttccagatag agccgtgtga gagatgaata tcttgccagt ggagttaaca gccgcaagca	360
	gttcacgggtt acgttcgtta cattgggtctt catcgccgtc aactggcgca aggcgaaagc	420
10	aaacgagtga aaagtaccga gtagtgacaa cctcaaaact tggatcttga gctacataat	480
	cttcaaaatg cttagcgaga ttgacatggg ctcttataaa gtttcttaag ttctcggaac	540
	catagagccg taaaaccatc cataacttca gtgatctgaa tctccgagag agagaaatct	600
	gccaatcttt ataattttacg accgtatctt ttttggaac cttgaattct agatactcgg	660
	gatttggttt gagagcatca atgagagagt atcgatcctt aacccaaaga ggtgaacaag	720
15	tttgattagc aaataacctt ttatgagcat tcatgttaaa ggagtctgcg ttttcaatcc	780
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	catgcaacca tatcccatat ttctttgcga tgttccccaa tgggaccaa ggatcaaccg	900
	ctgtgtgaaga cgttgtgcca acagtggcac aaatgaagaa agggataaaa cccttagcga	960
	gatcatgaga aatagcttcc tcaagtgatt ctggaggcat tccatagttt gtggaagaat	1020
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<210> 126

<211> 1079

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

30 <222> (1)...(1079)

<223> n = A,T,C or G

<400> 126

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	cataatcatt atctgtcaca caatgcaata gaaaaggtag aaaagcacia aaaacttcat	120
	aataataaca agtctcattt tattggaatg gtctgagaaa tcaatatgta gtagacaagg	180
	ttagcttttt tgctaagcat agagttgtct tgagggtctaa acaagtcttt caatatatag	240
	ctactcttcc acctaaagaa gctttctcat gttccagtga catggtagta ccattgtctg	300
	ccacattacg ctatgttctt gaactagttc tcagttccaa caacagacgc ttcattgttg	360
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	tgaatagcca accaaccatt ctccctctc gcgcgcctc taatataata agcctctttg	480
	aaaccattct tgatcagcaa ttcagctact ttogacgagt taccatcaaa attatcaaga	540
	acacaaacaa ctgtattctc agcatcagag aagcttctct taannntcgt caaaaaccct	600
	tcttcatcat tctcactaaa cnnaanctga acagaactct taccacaaaa cttaagattc	660
45	ggtgatgcta acaaagccaa agtcttgaca tctctaatat ccaaaagctg agaatcagat	720
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	aacatcacag ctggataaac aacaagatag gtaaaagtac atcccgtac gaaaaatgga	840
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	gatgggtctg atgaaattga gtcgaatgat tcagatgcga gaacagggga agtgataatt	960
50	agttgggaaa tggttacaga gagattggtt ttggttagga gatgtattgg aggttggttt	1020
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<210> 127

<211> 1078

55 <212> DNA

<213> Arabidopsis thaliana

5

<220>
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 <222> (1)...(1078)
 <223> n = A,T,C or G

10

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agagaccttg tcgacgaaga aatttggtga agatgggaag agattcgagc atcttgcatt      180
15 tctgaatttg gctcagaatg taatctgctt ggtttggtct tatataatga ttaagctctg      240
gtccaacgga ggttctggtg gagcccatg gtggacgtat tggagtgtcg gcattactaa      300
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20 tgcccttctt aagacaagct ctaaaacat cagcaagcta gcacatccca atgcaccctt      540
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25 atgcggtgca gtaggcaaaa acttcatctt cttgacaata agcagattcg ggtctctagc      840
taacacgacc ataaccacaa ccaggaagtt tgtaagcatc gtggtatctt cagttttgag      900
cgggaaatccg ttatcttcca aacaatgggg atgtgtgtcg atggtgttcg gtggattgtc      960
ttaccaaatt tacctgaaat ggaggaagct gcagagaatg cagaagaaga aaaaggcctg     1020
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30

<210> 128
 <211> 1078
 <212> DNA
 <213> Arabidopsis thaliana

35

<220>
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 <222> (1)...(1078)
 <223> n = A,T,C or G

40

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aaaaaacaga gtacgtagaa agaaactagt ttaaaaaaac tattgcaact tcttcttcca      180
45 tctcagtttc aaggcttgag tgcgagagcc aatccaactt tagcactctt gtcaattgac      240
tttgtgtcga ctttccaga gattgtgaag aatgacttgg gtttccactc gtgttgaatg      300
agagcacttg caataccgcg actattgaca cgagccttca cagaggtcaa ggggtcaagc      360
gagtgtgtg ttccaacagt tatggtgctg tccttgctag ataacttgtg gctcacttcg      420
gctccaaccg cagtgttgaa cagcgggttc acaatgtgat agtaagatgc attcaataga      480
50 tcgcccttgt cgttcacagt aaggagggca attaagtcct cctnngtgaa gcttaaacca      540
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tcaggaacct tgaagctgaa gattgacctc agtccgggtg cagcctcatc aacggtagcg      780
55 gtgatcagaa aagtagaatc agtgcaaaact ttcaaatcag tagtaatgtt ctttcgcctc      840
gactgaaaag cgacatctcc caacaataag tcacctttct tagttccggt tgaggtgatg      900
  
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5	gcaacaccgg	caggagagaa	agtgggtgata	ctgaatttct	ggtcactgtt	gtgggtctttg	960
	tacagaagat	ctctggcctt	tttgccgatt	tcggtgtaga	gaccgggacc	tttcaccatt	1020
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<210> 129

10 <211> 1077

<212> DNA

<213> Arabidopsis thaliana

<400> 129

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	cagaccgag	caaggtttgc	cactctcaca	ctggtacaaa	tttcacaaca	agctctcaat	180
	ttgggtccaaa	ccagaaaaaa	ataaaaaatga	atgatgagt	acgagtaagg	caagaacaaa	240
	cagagaagaa	aattcgtgga	gccgtgttgc	ctggatgaat	aatgtaacct	gagtactttt	300
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	acacgaatga	agtcaagtgc	atcatgtttg	gcttgatctt	accggtatcc	accaccatag	420
	gattgttgag	ggttgttaacc	accttgaccc	atcatcggat	tgtagtatt	gccaggcatg	480
	tttgggctag	gtaccatccc	tgggttttgt	ggttgcatcg	gatagccttg	gccatatcct	540
	cccatgttca	tgttcatgtt	catgccgggt	cccattccca	taccatcgg	ttggttttgg	600
25	ttcattccgg	cccccatacc	catacccatg	ggttggttct	ggttcatacc	tccgtagcta	660
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30	aagttaacaa	gccccctgct	caacgtgtct	gccagactg	atgattttgg	ctcaaacttt	960
	ttctgaggcg	gaggaacaat	ctcaattgct	cctgttaaag	gtgtgagatc	tggatgagat	1020
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<210> 130

35 <211> 1077

<212> DNA

<213> Arabidopsis thaliana

<400> 130

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	tgattgtcag	cagggtgtgt	caggaccttt	atctggtgac	cgtatggtag	ttgctctctg	180
	gaaccgttgc	tctgagccag	caactattac	agcatcatgg	gatatgatcg	gtcttgaatc	240
	taccattagc	gtttcagtaa	gagattttgtg	gcagcacaaa	gatgtaacag	agaatacttc	300
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	gacagtatca	cactctgatg	tatagttcct	tattgtgagg	cattcaaactc	ccaaagaaca	420
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	cccaatgcac	gaatcgatat	acaaatatga	aaaaaacaaa	ttcaaaacaa	gaaaacttgc	540
	aagttacaac	aaatagaacc	attaataata	cagtactcac	actcacaacg	acaacgtacg	600
50	ttctcgttta	ttattcgatc	cacatatata	cgccaaagta	aataactaaca	aaacgacatc	660
	gtcccattat	ccgcagcaat	taagagcttt	gtttcttctt	atgggcactt	gcggcgcca	720
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	ctcgaaagcc	tgcaccgtgc	tacacacgca	ctcccacaat	cgatcttctt	tgcgtaacca	900
55	tttttcttct	gtgagttttc	gacatcagcc	tggacgagtt	ggagaacaag	aagagatatg	960

5 agaagagaag cgataagagc ttttgaaata gccatgattc tccaaggaga gtttatgatg 1020
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<210> 131

<211> 1072

10 <212> DNA

<213> Arabidopsis thaliana

<400> 131

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 aaaagatata tatccatttt agttatcaaa tctaaaattg agtctctcta catcctaccc 240
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 aattttgaac ttgctgattt tgtccggcct ctttagtaaa atgatatacg tgaattaacc 660
 25 tatcattggg accaatattc ttctcttctt caggtatctc ctctgctcgt aaagtccagt 720
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 30 gaagagggat gtccagaact tcataatata aaatgtcaga cgtctgattg tagtgaacta 1020
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<210> 132

<211> 1072

35 <212> DNA

<213> Arabidopsis thaliana

<400> 132

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 acaatggaga tattacttaa cacaaatata taaaagggtc catttttagtg gttgggtgaaa 180
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5

<210> 133
<211> 1071
<212> DNA
<213> Arabidopsis thaliana

10

<400> 133
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gtgggagctc ttgcgagctt cgttaatcct aaccttagct ttgattcacc tggtcgaagc 180
15 aaactccgaa ggagatgctc tttacgctct tcgccggagt ttaacagatc cggaccatgt 240
tctccagagc tgggatccaa ctcttggtta tccttgtagc tggttccatg tcacctgtaa 300
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aggaactata ccttccgaac ttggaaatct gaagaatctc atcagcttgg atctgtacaa 480
20 caacaatctt acagggatag ttcccacttc tttgggaaaa ttgaagtctc tggctctttt 540
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ccttaaagtt gttgatgtct caagcaatga tttgtgtgga acaatcccaa caaacggacc 660
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actcggctct gcaagctacg acactaactg cacctgaaaa aattggcaaa acctgaaaat 780
25 gaagaattgg ggggtgacct tgtaagaaca cttcaccact ttatcaaata tcacatctac 840
tatgtaataa gtatatatat gtagtccaaa aaaaaaatga agaatcgaat cagtaatatc 900
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gcgtagtcta atgttcggtt gtgggattct gagaagtaac atttgtattg gtatggtatc 1020
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30

<210> 134
<211> 1070
<212> DNA
<213> Arabidopsis thaliana

35

<220>
<221> misc_feature
<222> (1)...(1070)
<223> n = A,T,C or G

40

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aataccgtac gatctctaga ggaggaactt cgattcttga caaccttaac gctttgctcg 180
45 gtcccaagac gcaagattac atctctttct atggtttgag atcgtacgga cggctgtttg 240
aggacgggtc aattgccact agccagattt acgtgcatag caagttaatg attgttgatg 300
accggatcgc agtgatcga tcttctaata taaacgatag gagcttacta ggttcacgag 360
actctgagat cgggtgtgtg attgaagaca aagaattcgt ggaatcttcg atgaacggaa 420
tgaagtggat ggctgggaag ttctcttaca gtcttagatg ttcttgtgg tcagagcatc 480
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gcatcccgaa tgaacatata cgctcaagag ctgcattgag acacaatatg gctctttgta 660
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gcggcagcga ctcgtgggag attctgaagg agacaagagg gaaccttgtg tgcttcccat 780
55 tacagttcat gtgtgatcaa gaagatctca gaccaggttt caacgaatct gagttctaca 840
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5	taatagagta cctaagctca cacgttactt atgtatagag atgttagtta tatagaaaga	960
	agaaattcat ttgattgctt cctaggttcg cagaggtatg tgtgtgtata gtatacactt	1020
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<210> 135

10 <211> 1070

<212> DNA

<213> Arabidopsis thaliana

<400> 135

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	ttggttatat aaaccagaaa tgaaaagagg gagagagaaa aaaaagactc aagaatcaga	180
	atgaaactct gatcttattg ttttgtagt aaataagatt taatcaggcg acatagtaga	240
	tggagttagg gagcttgaag gttctcttgg gaactggaca accagagaag ctgttccatt	300
20	gtgcacccat cactcccaa actctgtacc caagacttgt aagccatgtc ctcaaactctg	360
	ctttgtattg gctcacactc ttcttttcat catcttctcc cctcagaagg aggttagacc	420
	agctgtggta accggcttca ataagatttt cgacggtggc agatctgaga tactctttac	480
	gagaagagat caaaaagatc ttgaaacctc tctctctgat ctcagtgtac aacttcacca	540
	tgtgtggaac cgctggtgcc ttgcccgaat tttgccattc ctcgaaacttg gtcgtgttca	600
25	gttgctcacc accgaaacaa ccgttgctct tgtggtaagg aatggttgag agaagagtgt	660
	catcaatgtc aaagatccaa gcatccatgc catcgcatgt cttcttctcg caacaagttt	720
	ttccgaggta gaggatggct tcatcgacgg ctctctccac gtcattctcg tattgagatg	780
	aggtcatgta cttttggacg aaccatacac attcctgtgg aaccacctta aagtcacctta	840
	tgttgtttaag ctccacgttg actctccagc tctcacagta tccgtttagg ttgggagctt	900
30	tcaaagatgt gacgccggtt tggctagtct tctggttggt tgtggttcct ttgagctggc	960
	tcaggatgtt ccagtcacga gctgagacaa ttccggcgaa gaggaatgtg agggtagcgc	1020
	agagcaacaa ggatctagcc atgttgagac ctgcccgggc ggcgcctcga	1070

<210> 136

35 <211> 1069

<212> DNA

<213> Arabidopsis thaliana

<220>

40 <221> misc_feature

<222> (1)...(1069)

<223> n = A,T,C or G

<400> 136

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	gcagatgatt caaatgaaaa ctacacgact catgactaat ggaaacacgt ttctctgaaa	180
	cgtgaatcat cttagataga tttaaagcaa aagaaagaga tgcaaagtcc cgactgaatg	240
	ttccagtgaa agtgatcagt cacgttctact aatggccgtc aagtgtctgt cgatctcttc	300
50	tgttctcagg gaacggaaga gagggctatc agctctcaca actccacct caatttcagt	360
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	atcatatgtg aaggcagggg tttctttcat tttcttctcc aagaaattga ctgcttcttg	480
	ttctttcata ccagcactag ttgccttggt accgtaaaaa tgtccagctg ggtcacactt	540
	gtaaagtaga ggtcctctct cttcatcaat acctagaacc atggcaacta ctccaagggg	600
55	tctcatgtaa gcatgttgtg tgtaannnng agacttatct gcaatccatt tagcaagaat	660
	atnnnnaggc atctcatnnn catattgggn nctaaactca gcagcctcat tctagcttg	720

5	ttgtaccaat	gaccttgaat	cagctgtcat	gccagtggct	aacaatccaa	ggtacttgg	780
	aacagggaaa	aggtgagata	cactagactg	atccaaaagc	ttgtccggaa	ctttcttctg	840
	cgtaacgacg	catactgaat	ctttccctcg	gacaccgatc	gatgtgattc	cagctgcttt	900
	cacggctttg	aaagcatact	cgacttggaa	gagacgacct	tccggtgaga	aaatagtgat	960
	gtgacgatcg	taaccagcgc	cgcttcctct	gctcatcttc	ttcttctcag	agaagagaa	1020
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<210> 137

<211> 1068

<212> DNA

15 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1) ... (1068)

20 <223> n = A,T,C or G

<400> 137

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25	aacagaattt	agataaaggg	ttcaaagctg	ttccgtttag	tcatcattca	ccgatgaact	180
	tgcgcttttt	agaggtgttc	atgtacgggc	ttataaccca	ttcgatctct	gcttcatttt	240
	gttccacagt	tcctaatttc	acctggtaga	gccgcaactc	aaatcgagga	ccgatttctt	300
	taagctcgat	tgattttgga	cctccctctc	ctttatcata	gacatgattc	ctgaatgata	360
	tataatcgga	ttgattagaa	aaagtaacta	tacgttttgc	atccagtttt	ggagcagggg	420
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	tgagatgagg	atattgtctc	ggcatttttc	caatggattt	cttgtctgaa	atatcatgtc	540
	ttggtaccac	attaagtaat	ccaaagtatg	cagttgggtc	aaatgggaga	tgagagataa	600
	tgagaccatc	aggcacacca	cggtgctcat	gaaccaatat	aacatcagta	aaatcatggg	660
	aacgagcagt	ttcaatgatc	tcagaaatga	cctgactacc	acgattttatt	ctctgagagt	720
35	taggaaacac	aaacttcaat	tccttagtga	atcggatgag	cggagcactt	ggatttcctag	780
	aagttgtcaa	caaatctttt	ggatctgctt	cogtagcatt	ngcatattca	tcatcgatat	840
	gactccgcgg	annagctgtg	ttttggctct	caagatcaat	ttcttgtcga	agcttggtct	900
	cgacgttttc	gagctcagta	ggaatcggct	ttccttcttg	aagggcttct	cttatcagcn	960
	gcttctgtct	atagacctta	cgctcatcac	cttccaagct	tttctgttag	atatactctt	1020
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<210> 138

<211> 1068

<212> DNA

45 <213> Arabidopsis thaliana

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<222> (1) ... (1068)

50 <223> n = A,T,C or G

<400> 138

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55	ctaaagatgt	tgtctgcaaa	tgtttgtgtt	tcaaagaaga	gcagatttaa	gagacttggt	180
	tagttttctc	agctccttaa	gtccttcagt	tggcgacttt	gcacacacca	atagctttac	240

5	cattgcactg	cctacgatca	ctccatcagc	tcccatcca	gctatctgtt	tcacatgctc	300
	cggctttgat	attccaaaac	cgactgccac	cggcttgtct	gtcgctcttt	tgatatcctt	360
	caagagcgac	tgaacctttc	cgcttacaga	tgatcgtgca	ccagtcactc	caattgagct	420
	cacaaggtaa	ataaatcctt	ctgacgcac	aacaattagc	ttcattcgct	ctgttggtgt	480
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10	ctcagtttcc	ncnngaggaa	catcggaac	cacaagtccc	tgtacaccaa	cagctctgat	600
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15	tgcttcagca	gtagtagaga	gacccggatc	accagctgtg	atatatggta	tgaatgctac	900
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	ggagagagaa	gccatgggag	tgaatctctt	gaaagaaagc	gatgaatcag	gaggagaaga	1020
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20 <210> 139
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 <212> DNA
 <213> Arabidopsis thaliana

25 <220>
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 <223> n = A,T,C or G

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	tcntaaacc	tcaacgccgg	cgaagatgac	ggcgacgaag	acgacaataa	taacaattct	180
	gaagataaca	aagctttttg	gcaggaacac	gaacaacttc	ttcaggggac	actgtatagg	240
35	acaagttcca	ttgagacaaa	gattagacaa	gctacaaaag	aagcgttgaa	acaagttaaa	300
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	cgtggcgaaa	tctctagaca	cctaagagat	gtcgccggct	acgattgcgt	catctctaaa	420
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	tgtactatgt	ttttttgatg	acttgnantt	attaagtgat	taggggtgag	catgagtgtt	960
	aattatgggt	tctgatttga	acttagcaag	aatgggtctc	agcggctgtg	attcgagcct	1020
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50 <210> 140
 <211> 1067
 <212> DNA
 <213> Arabidopsis thaliana

55 <220>
 <221> misc_feature

5 <222> (1)...(1067)
 <223> n = A,T,C or G

<400> 140
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 aaaggataca ctagtgtgta tatagtgtga catcttaatt atttttaata ctctctcatc 180
 gattatatga aaacccttca acgtctatct tcttttgatc acctgacggt gttacagttg 240
 gttctggcac tgatggggta agagatccta acacggcaag caccagggag acgagcagca 300
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 aaaaaannnna agnacaagaa ggagaagaaa catcatgatg atggtcacca cagcagcagc 780
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 aagacaggag aaccgtgcat ctatctttgt ttgttatgtt tctgttttct tgtcatgaaa 960
 25 attatgctca tgtatcttat ctaaatacaa aataataatt tgatgaatca taacttgtaa 1020
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<210> 141
 <211> 1066
 30 <212> DNA
 <213> Arabidopsis thaliana

<400> 141
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 cagaggaatt taagaattgc atcaaacaag cagagaaata tgaggtaata tgtgttcatc 180
 agactctgga cttcttgcat tctggaggga atccacgagg gaaccttttg agatcagagc 240
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	agcttgtgat	aatagactca	ggtgcaatgg	tcatggtgct	actatgaatc	tttttgaacg	240
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<211> 1062

10 <212> DNA

<213> Arabidopsis thaliana

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<210> 147

<211> 1059

35 <212> DNA

<213> Arabidopsis thaliana

<220>

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<210> 148
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 <212> DNA
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 <212> DNA
 <213> Arabidopsis thaliana

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 <212> DNA
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<211> 1055

<212> DNA

15 <213> Arabidopsis thaliana

<400> 152

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	ctttcagatc	ctgccattac	atcaaacaac	ccgcagcaac	tcaaccacga	cgttcgaaaa	420
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	ttcacattct	tgatttcttt	gttagtttcc	tcagcagatc	ttggactaag	gatctcttcc	540
	ttttcatcag	acttctgttg	gagagaatcc	gagtcctgcg	aactctcaac	ttgcttactt	600
	ttgtcagaca	tcacaacttt	tgagacagaa	gaaccatag	gcttgacaga	atcaagagca	660
	ggtgaaattt	ccaaacttga	agtactatca	gcctctctag	aagtttgagt	aaaattttca	720
30	ggacaggaat	tgagttgttt	gtttacacca	ttctcctcgt	gatccgttct	tcctcttcca	780
	acttcaataa	cgcttccacc	tttcgctact	tgtccccag	taaagtctgc	atcttctgct	840
	ttctctttaa	caatgtcttt	ccctaaacta	gataatggag	gaggtgatgg	atctctagtc	900
	ccaaattctt	catttccttg	agatccaggg	gaactcaaac	tgccatcact	gtctctctca	960
	tcttggtctc	catgttcac	atgtccatga	ccattgaagc	ctttgttggt	ggtagcgact	1020
35	ccagtggctt	cctgctcctg	ctgcttcttc	ttcaa			1055

<210> 153

<211> 1055

<212> DNA

40 <213> Arabidopsis thaliana

<400> 153

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45	catagcatca	tatacttaat	tctccaaaca	gaaatcagat	atacacacat	aaaggctttt	180
	ggattctctt	atagttataa	actggatcac	atcactgaag	catcgtttta	tgcttttcag	240
	ttgtcgctt	gcctcagtat	acgcaatatg	gtcaagaaga	gattgaggat	gtccaagtag	300
	agagctactg	atgctaggat	gtattcgtca	tatgtgaaac	gcttgatgag	gtgtcggta	360
	tcatagacta	tgtatccgca	gaataccaag	gcaactgaatc	ctccgtatac	ggcaacagaa	420
50	gtcggggcaa	gaggggaaga	catctggatg	aagctgggtca	ctacaagaat	gatgaggctg	480
	gtgaagagaa	tgggtccaag	gaagctgaag	tcttttccct	tctttgcagc	ccagaaagtg	540
	tatgcgggta	gagatccgac	cacagacaga	gtcaatatca	aggctttag	cacaattcgt	600
	ccttctgtca	tagcacaaact	gacaccaaca	gtgaaactca	atgaaacagt	gaagagggca	660
	aggaggatca	ggttaacagg	atgcttctgg	tggtaaatgt	gcagaggcca	gattaagatg	720
55	aagggaacga	tcagagggaa	gagaagaatc	ccaggagatc	cggtaagag	atcgtaaca	780
	ggaggattaa	gaacaacgac	ggcggagata	agcgtcgtaa	gaagaagctg	agctgagaga	840

5	atcccataga ccttacgaat aaatcccat	cggagctgat tctcgccgta acttagccca	900
	ggataaagcg tgcgttctcc gactcccatc	tcaagatcaa tatcctttcc ggcggaacga	960
	tctatgccgc tcatgctcac gctcgcgat	ccgtacgggt tgtccatggc taatagctag	1020
	attcgtcttc gaaagcagat ctggactagt	tctag	1055

10 <210> 154
 <211> 1054
 <212> DNA
 <213> Arabidopsis thaliana

15 <220>
 <221> misc_feature
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 <223> n = A,T,C or G

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	gaaacaaaac ggaaagaaaa atgcttgaaa	attcccataa tagaatcaaa gtttacactc	180
	cttggggagg ccttgaggga atctcttaaa	atcgggtacaa tagttgtaga tcatgaagtc	240
25	tcggtgcacc cacatcattt ttccgtactg	ggcaggattg agagtcgtcc acatccacga	300
	gttgctgttt ggctcgcaag tcaaccattt	tgagcttgat gtccctgctgc atgagctttg	360
	gtcgttgaag tttctgtaag aggccttgaa	tggtgcgttg ctccagtcga tcttcacgcg	420
	accgccttct gtagccagat catcggttn	ncaaanntt gagtatatcn tcatcggtg	480
	gttcttaggg taagccaccc catttttctc	gttgctcttg aacaccgaa ttgggatccc	540
30	atccacaagg aagatgatgt taacagggtt	ccagtggacg gtgtagggtg ggaaatccgc	600
	agtgggatcg aaccagagac ggaactgcat	ctcacggtcg cctttacctc cgggtaacac	660
	attggtgtgg atagtgtaa gatgtcctgt	gcgatttccc aaaaactcga agtcaatctc	720
	atcccatgcc gtgcctttt acgataggta	gtaggcggtg acggtgccag cagagtttcc	780
	agcgacaagc ttgagcttca tgtcgatctt	accaaacaag tactccttct tggattgaaa	840
35	acctgagccg gagaccttgt caagagtaca	agtgagaagc tgtccattct cgaatatgtt	900
	ggcacgacca ttacccaag tgatatcaaa	gctctcatag aagtttccgg cagatgcagc	960
	caccacaaag aagccaatgg caaggaggag	agacaacaac agaggctgtt tgggtgcgaa	1020
	acacgccatt tttcccgat tctctgttgt	ttct	1054

40 <210> 155
 <211> 1054
 <212> DNA
 <213> Arabidopsis thaliana

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	ccatgtaaac atacgatgtc ttaccacaat	aaattttacg ggaagtaagt tttcttaaga	120
	ctcaccactg actttggcga caataactga	agcatagtga gcaatgtag cctcagggga	180
	ttgtttaagc cttgcaatga ccgggaacaa	ctctgatgac ttcacaaact gtctgcaaat	240
50	ctggtgggtc gaacacattt tagccaatga	gaagagtgcg atcttgagcg gtgactcact	300
	cgctgtctct ttcttgcttg ggttcaaggc	aagagtgcag caatccgcaa ctagcctcag	360
	taacgtttgt aaagctccct tggagactat	atcttcacag agtttggttg agtttcggac	420
	aagggtgtct aatgcaccag ccgcgtttgc	ttttgtcttg tcttcttcag ccgtgggtcaa	480
	aacgtttgct agctgcgtta tagatcttct	tagctcttca tacagcgtgt cgttatggta	540
55	agccgcattt ccaatagcaa aacaagcgaa	tttctgtgtt cgtttgctcg gatcagcgca	600
	togatcaatg aggagaccga tgatttgatg	ttccgcaaga gcgctgtaga aatatccatt	660

5	gtgtctgcac	atattgccaa	gagcactaca	agcttttgca	cgtatatttg	gatccacatg	720
	ggtaagatat	tctttcaaag	gctgtaaaac	agaagcctcg	ccgatgtatt	tataaaaagc	780
	cttatccatc	ctcgatagat	cagatatgat	catcaaaata	tcaagtatga	cttctcttgg	840
	acttgattgg	ttgagtaatt	ttttcattct	attaggatct	aacagacctt	tgctcacgag	900
	atctacagca	agacgtggac	gacccacat	tttggcaaga	aaagcaacgg	gccttactaa	960
10	atcttttaat	tccaaatgat	ccaagcaacg	taggattaaa	ctcggcactc	ccacctccag	1020
	gaggactatt	atgtatttgt	ccacggacgc	gtgg			1054

<210> 156

<211> 1054

15 <212> DNA

<213> Arabidopsis thaliana

<400> 156

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	actaacttga	agaataagga	attgattgga	aaatctgacc	cttatgctac	catctacatt	180
	cgtcctgtat	tcaagtataa	aacaaaggca	atcgagaaca	atctgaatcc	tgtctgggat	240
	caaacattcg	aattgattgc	agaggacaaa	gaaacccagt	cgctcactgt	agaggatttt	300
	gataaagacg	taggtcaaga	tgagcgcctt	ggacttggtga	aacttccctt	aagcagtttg	360
25	gaagccggag	ttacaaaaga	actggagcta	aatctgttgt	cttcacttga	tactttgaaa	420
	gtaaaagata	agaaagatag	aggaagcata	actcttaagg	tacattatca	tgagttcaac	480
	aaagaggagc	aaatggctgc	gttggaagac	gagaagaaga	tcattggaaga	aaggaagaga	540
	ctgaagggaag	caggagtgat	aggtagcaca	atggatgcag	tcgggatggg	gggaagtggg	600
	ctcggtgctg	gtgtaggaat	ggttgggacc	ggtattggca	caggagtcgg	attggttgga	660
30	agcgggtgta	gctcgggtgt	tgggatgggt	ggtagcgggt	ttggagcggg	cggtagtgga	720
	ttgagcaaa	caggagatt	tatgggaaga	acaatcacag	gtcagtctag	caaacgtagt	780
	ggctcctcaa	cacctgtgaa	taccgttcca	gaaaacgatg	gtgcaaaaca	gcagtgagta	840
	aactttgggt	ttaagcaaga	tttgtgatca	tgacttcggt	tttactcttt	attgttctgt	900
	ttttttcccc	tttaactctc	tcgaacttga	tttctggatt	cactgcagta	atttgttttc	960
35	gttgtgagcc	ttcaaatata	aatcttgtac	aaaagtcatt	tgcttaatcg	tcccataaac	1020
	aatagattcc	ctctcaaaaa	aaaaaaaaaa	aaaa			1054

<210> 157

<211> 1053

40 <212> DNA

<213> Arabidopsis thaliana

<400> 157

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	cacctgttta	aaccgccaaa	acatcccgtc	aaaccacctc	agccccctac	cgttaaacca	180
	cctactcaca	ccccaaagcc	tcccactgtg	aagcctccac	ctccatacat	tccatgccct	240
	cctccgccct	atactccaaa	acctccaacc	gtgaagccac	caccacctcc	ctacgtgaag	300
	ccaccaccac	ctcccactgt	gaagccacca	ccacctcctt	acgtgaagcc	accaccaccc	360
50	cctaccgtga	agccaccacc	accaccacag	ccgtatactc	caccaccacc	cacgcggtat	420
	actcctccac	caccacgggt	gaagccacca	ccaccaccgg	tcgttaccac	accaccgcca	480
	acaccaaccc	cagaggcgcc	atgtccgcca	ccaccaccaa	caccatatac	tcctccgcct	540
	aaaccggaaa	cttgtccaat	cgacgcactg	aaactaggcg	catgtgtgga	cgtgctaggg	600
	ggttttgattc	acatcggact	agggaaaagc	tacgctaagg	caaagtgttg	cccacttctt	660
55	gacgacttag	tgggtcttga	cgcggcgggt	tgtctctgca	ccaccattag	agcgaagctt	720
	ctcaacattg	acctcattat	cccaattgct	ctagagggtc	ttgtcgactg	tggttaagact	780

5	cctccacctc	gtggcttcaa	gtgtcctact	ccgctaaaaa	ggactcctct	cttggggttga	840
	tctcttttgt	atttcatttg	atacaacaaa	aaagggtttg	agacgttaag	atctactaga	900
	ttcttattta	tgttttgcca	aacaataatt	aaaagggctc	aaatttagta	attgttctaa	960
	aaatataaag	caaattttat	gtattgtatg	atgattatgt	acgttgaaat	aatgttatct	1020
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10

<210> 158
 <211> 1051
 <212> DNA
 <213> Arabidopsis thaliana

15

	<400> 158		
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	aaagtaaaat	gcaacatata caatggaaaa aactgtttat ctatgataat ttcaagatag 120	
	ggtcggtaat	aatatgatgt tcttctggta gatcataagg caaattgatt ccatggactt 180	
20	tgaggtaactt	caggcgaaaag attgaagtgc tctctcgaag ttatcttcag ctgatgctgc 240	
	tcgcttcaca	aggacgtggt ctggatgtga aagtttcagc tggtttaggt agcgagaaga 300	
	tgatttcccg	acgtgaagac tgcatacaac gaggtttgca agagtttctg ggtctttagc 360	
	atccttggtg	agtgttcaa gtagtagagt ctcagcttct tcaaaattac ccatatgcat 420	
	gcagcaaaact	gctttgcegt tcaagatcaa gcttgtcatt gggacttct cagagaaatc 480	
25	ctggaagatt	agataagctt cctgtatctt ggaaccacct actgccagat tcaaccacgc 540	
	gctcgcgagc	tgagtgagtg tgtggtcttc atcaatctgt tgcatactc tcagttggtt 600	
	ctccgcaaaa	tctgatctgt gcatctttat gaatatctgg acattcaaag catgcagatc 660	
	catggttcct	ccagaatgag tgtgcttcag agcctcatta tagtcttctt catgcatgaa 720	
	tatagtacca	gcaatcaacc tgataatagc attgtttcct acagttggat ctgccaacca 780	
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	gtaacttccg	agagcgatgt aagcgcatg gacgagacag tctcgctcga cgatatcttc 960	
	ctgcgaaaaga	ttagggatct cgctgttggt gatcgagct tgataagcac ccaagtagaa 1020	
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35

<210> 159
 <211> 1051
 <212> DNA
 <213> Arabidopsis thaliana

40

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	ttgaggagca	gcataagaaa gccttagagg aggatccttc tgctttttca tatgatgaag 180
45	tttatgatga	tatgaaacag aaagctgttc ttctctgaat gcaagatcgt gaagaacgca 240
	agccaaggta	tatacagaat ttgatgaaac aggcagaacg tagagagaaa gaacatgaga 300
	tagtttatga	gagaaagctt gcgaaagaga gggagaaaaga cgaacatctt ttttcggata 360
	aagaaaaagt	tgttactggc gcttataaaa ggaaacttga ggaacaaaag aaatggctgg 420
	cagaagaaaag	attgctgtaa cttcgtgagg aaagagatga tgttactaag aagaaagatt 480
50	tgagtgattt	ctacttcaac attggaaaaa atgtcgcttt tggagctcga gaagtcgaag 540
	ctaaagaggc	agagaagctc gaggaacaaa gaaaggcaga gaagctcgag gaacaaagaa 600
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	caccggagaa	ggaagtatct cctgactcgg gagaatttgg atcaagtcgt agcaaaagtt 720
	tggagccact	agaagcagag caagcagttt ctgaaaagga gatgggttca gatggcactg 780
55	aagagagaaa	gtcatcaatc aaagaggcag caaaagaagt gccgaaagcc attaacgacc 840
	agaagagaag	agaggatgag atcgctgccg ctaaagagag gttcctggcc cgtaagaagg 900

5 caaaaattga agagtatgtg caacttggct gatttcagtc caatagttaa atcttgggtga 960
 acttgtcttc ttctgattat cgaccaccct cttttttata agtaactttt caagataacg 1020
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<210> 160
 10 <211> 1050
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 15 <221> misc_feature
 <222> (1)...(1050)
 <223> n = A,T,C or G

<400> 160
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 acacaatcgc agaatacaaa gtttaaaaaa tcttcattat cattggattg aatcacagac 180
 ccacaagtgc taacaccgaa gttgtcattg ctgtgatgaa aattctcctc aatatttcgt 240
 ttccctttcat aacgttaata gacgatgagc cgcttgggtga ttgagaagtt ggcaaaccgg 300
 25 ttgtgtcata cttcaaaaaa catttagaaa gatagaactg agcaaaacga gcattgggtac 360
 aacagcctga gagacctttg accacaagtc tcaaacagac gccgcnattt gctggatcaa 420
 gatcaggact aactgaacc accgtgtcta atgtatacga gccctctaatt tcatttacac 480
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 ggataattag ttgctctacc ttattggata acgtttgttg gaaagaacta aaaagagaag 600
 30 taggaaaagt ggcgagagag tatttagcga cgtaaggccc gtctagttct acgagcgtga 660
 agaaggaaac attggagtat cgaaccatac actcctcgta gaattattaga gcagtttttc 720
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 35 gggtttcacg gtttgctttg tatgagctgg tttgtgtgaa gttgtcggat aatctgtcgt 960
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 agaagaagaa gcaaaacaaa ggagcagtga 1050

<210> 161
 40 <211> 1050
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 45 <221> misc_feature
 <222> (1)...(1050)
 <223> n = A,T,C or G

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 aacaccgctg cggatgcgcc ggtgacggat gcggccgttg agaagaagcc tgcagcgaag 180
 ggacgaaaga cgaagaatgt taaggaagtg aaggagaaga agactgttgc tgcgcgtccg 240
 aagaagagaa ctgtttcatc tcctctact tacgaagaga tgattaagga tgcgcttggt 300
 55 acgttgaaag agagaactgg atctagccaa tacgcgattc agaagttcat cgaggagaag 360
 cgtaaggagc ttcttccaac attcagaaaag ctgttgcttc tcaatctgaa gagacnctt 420

5	gcttctggga	agcnnnnnn	anntcaagcc	tcgtttaaac	tcccatcggc	gtcggcnaaa	480
	gcacatccc	ctaaggcggc	agcggagaaa	tctgctcctg	cgaagaagaa	accggcgact	540
	gtggcggtta	ccaaggcgaa	gagaaaggtc	gctgcggctt	ccaaggctaa	gaaaacaatc	600
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10	aaggctagac	cagccaaggc	agccaaaacg	gccaaggtta	catctccggc	taagaaagct	780
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	tgaagttagg	gtttgtagg	agaagaatgg	ttaacgatag	tttagacttg	tataattcaa	960
	tcatctttat	gcgactttgt	ttgcttttct	tctttcagtg	ttcttggtat	tcacagttcc	1020
15	tttggaactac	cccttaaatc	atatatagat				1050

<210> 162

<211> 1050

<212> DNA

20 <213> Arabidopsis thaliana

<400> 162

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25	gttgataaag	attgcggcac	caaacctaaa	tgggaagcatc	aatgaagct	caccgtcgat	180
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	aaaggatctc	tcaaattctc	gttcaaattt	ggggaaaagt	atacttatgg	atcttcgagt	420
30	ggtctcacg	cgccggtccc	ttcggtatg	gatcataaga	ctatggatca	gcccgtcacc	480
	gcttaccgcg	ccggacacgg	tgacccgtct	gcataacctg	ctcctcccgc	gggtccttct	540
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	caggctggat	atccagctgg	aaccgggtgg	tatccgccac	ctggtgcata	cccacaacag	660
	ggagggttacc	ctgtatatcc	gcctcagcaa	cagggtggat	acccgggtta	tccgccacag	720
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	cagcaagctc	atggtaaacc	gcagaaaccg	aagaagcatg	gtaaggctgg	agctgggatg	840
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	tctgacatcg	ctgatatggg	tgacatgggt	gacatgggtg	gtttcgattt	ctgattgctg	960
	tggtatcaag	ttttaatttc	ttaggataat	tgctctaagt	tttttcgttt	gatgaatcat	1020
40	gtgaagaacg	tgagagatca	aaaaaaaaaa				1050

<210> 163

<211> 1049

<212> DNA

45 <213> Arabidopsis thaliana

<400> 163

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50	caagtacaaa	agagtgaag	actattcacc	agaagcctgg	aaaacaatct	caacactgcc	180
	accacatgaa	aatggaatga	attcaaagaa	tgatataaat	ggttaattct	aatgtgggca	240
	aaccgaaaag	gaaagtttta	tggggttttc	aatcttcttc	tttactgag	accgtctcaa	300
	atgtggggct	gtggtatatc	cttcgaagaa	atccaacact	gcggtttcaa	gattttcaac	360
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	cgatcatgat	agatcaatca	acgtttccct	atagtcagag	atcaagttga	ggtaattcat	1020
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<210> 166

<211> 1045

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 166

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	catccaattt	aagaaaagcc	ttatttatgc	aagaaaacc	caacaaaac	caaaaatgaa	180
	ttagtaaaaa	tataaagaag	atttgaaata	tattgtatca	aatgtaatat	tatatccacg	240
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	tggttaacc	agcggggtcc	atggacgggt	ccggtcgtcc	agttcnnnnn	nnnctagtga	600
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<211> 1044

45 <212> DNA

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<223> n = A,T,C or G

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	caactttgtc	cacttggttcg	gagatcgaag	atgggatttt	gtagcgaaag	tttcaggttt	180

5	gaaggtggag	ggagaaacat	aagaataggt	ttaaacagaa	caggaaagag	ttgcaggtta	240
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	cgttttagtcc	ttgagcttca	cgccaaatgg	ggaaacaggt	ggtcaaaaat	tgcccggaaa	360
	ttaccgggga	gaacagataa	tgagataaag	aactactgga	ggactcatat	gaggaagaag	420
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 <212> DNA
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 <223> n = A,T,C or G

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	aagaaaagta	gaaagaaaaga aaaaaagaaa ctgataggtc tcattctcaat ttgaggctca 180	
35	agaattaacg	aacaaactag aacaagaaca aagaagaaga agtagaaaaa aggcgggaag 240	
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	tttagacccc	caaaaaatca gtccgataca ggatttgggg agncagatga atgagaaacc 360	
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	cctttgttcc	cgtgcaatat cgcagacaag cttccttttag acatgtactc aaagacaaga 960	
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    cacctttttc tgatatttac aacttatcaa tacatgatgt ttttcaaatt ttctaattcc      180
    gccgcagagt aaaaataaat atcagcagca acccctctat ttattcagag tagtcctctg      240
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   <212> DNA
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    agcctatcca agaaagtata taaacctcct ccaagtagaa gagcaccact tatgggattg      180
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    tttgctgctg cagcacgagg atcaaagttg ttaaagaaag aaggaagctg aagttcgatt      480
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    gacagacttg tcacaaggcc tgccccaat attactgcca aacttggttac actgagtgtc      780
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<210> 171

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<213> Arabidopsis thaliana

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<223> n = A,T,C or G

<400> 171

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<210> 172

<211> 1042

40 <212> DNA

<213> Arabidopsis thaliana

<400> 172

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 <212> DNA
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50	ggtcttccaa actgtatttg tgtacctaa accagagaca atgttggtgt taacatgaaa	540
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55	gatagtgtac tgaggaccca attgcaattt ggaatcgtcg tcttcttctt cctcggtagc	840
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5	ggaggagttc	tcatcatctc	catccttggt	gttcttggtg	ttgttggtgt	cgtcgaaccc	960
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<210> 175

10 <211> 1038

<212> DNA

<213> Arabidopsis thaliana

<400> 175

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	agaagagtcg	gttaactcca	atgaactcga	tgtattcaca	tcaagtagta	gtaattccat	180
	tgatgtctca	ggccattctc	taaattttct	agcccttaca	acatcaagaa	gattatctgg	240
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	ttcttgacgt	atacttttct	ctgctgcac	gaaaattttc	ccattttccc	aaagctctaa	420
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<210> 176

35 <211> 1038

<212> DNA

<213> Arabidopsis thaliana

<400> 176

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	gttctaata	gctctcgggc	attcaagtca	tcatcatata	gagctgcagc	aggacagact	180
	caacattatc	ttgctcgaag	ttcattgcct	gtcgtaaaaga	actcgtgggg	atcaccacct	240
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<210> 177

<211> 1038

10 <212> DNA

<213> Arabidopsis thaliana

<400> 177

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	aactccattg	atttaaatta	tttcgtttta	caaccatcgt	catataaagg	ttcaaggaca	180
	tttggttttt	ccaccacgtg	tcttcatggt	ggcgtaacaa	gatccacact	tctccttatt	240
	accgtaggtg	cctgggggaa	cacacttgca	gcggtagcag	cacgtgacgc	acgtctctcat	300
	acatacgttc	ttcctcgagt	gttgcccaca	cctcgtccca	cataaaggca	cgcaatctat	360
20	ccgagttctt	acgggaggtg	gtgttgagg	tttgacaggc	ggcgctgtag	gtggtttaac	420
	cgggtgtagt	gggggattgt	acgtaggtgg	ttggaccggg	ggcgctcgtg	tggggggttt	480
	aaccgggtgga	gttggtgttg	gtggtttaac	cgggtgacgt	ggggggtttg	acgtaggtgg	540
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	tgaaaccgga	ggttttactg	gtgtaaccga	agtagttgga	ggtttgaccg	gaggttttgt	780
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<210> 178

<211> 1037

35 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

40 <222> (1)...(1037)

<223> n = A,T,C or G

<400> 178

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	ttattttttt	ccaaaggatc	attgtatcat	catattatca	cttccacatg	aagtttctct	180
	aaagcaaatg	atttctcttc	tcttttctag	ttggctttcg	aatcaatcac	cttcttagca	240
	aaagagggca	agcagaaagc	agctgagtga	atctcagcgt	tgtaataactt	caagggacag	300
	tgtgatttga	tagagctttc	atcagtatcg	attagactca	ctggcttctt	gaaatcgact	360
50	tgtggtcctt	cagatgaaca	aagcatgaat	ccaatgactc	cactcgggta	agttggaaca	420
	ctggtccaag	cgtagttaac	agatccttta	aagatgtcac	ggcaattaga	aacaatgtct	480
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	ttagggaaat	actgcttagc	cacatcaacc	accattttat	ctatttcaca	aatgtcaatc	780

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tacgcacatt catctctctc agtgagttga atcactccat ccaaaaccaa aacctttcca 960
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<212> DNA
<213> Arabidopsis thaliana

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atatttgatg atgcaaaaga aaagctgtag cttgacgcat caaacctaaa gtgataagtt 180
20 tcacactttg ggtctatgcc atcaagttat attcatctct ttcgattaat acagagtttg 240
tcggcttcta tcgttcattc cttcttggtt tcctttccct tatctgcttc tgataataat 300
gtctgctcgt atacgaattg agtgagcagt gggacaagga tagctccaag aattgcgact 360
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25 attttctcag tttcctctct agcttgctct ctatccactg gttttttgtc acgtaagctt 540
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30 ctctcgcca agaaatccgt caaacggacc ttcgatgtct gaatcatggc gatcctagct 840
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tctgaagtgc cgtctccga tttggagaga cagagaaatt ggggtcggga aagagaatgt 960
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tattgatgcc tttatactac aaaatgatga atgacaaatt ggtgaaaaaa aataacttat 180
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 gcgctgcagc atggta 1036

<210> 181
 10 <211> 1035
 <212> DNA
 <213> Arabidopsis thaliana

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 20 tattcacgaa ctaatatacc tagcatatgg gctgtaggag atgccacaaa ccgaattaac 360
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 <212> DNA
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 <223> n = A,T,C or G

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 ggttacccga tcgagggatt gtcgattggg gggcacgaga cgtgcatcat atttccatct 180
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 50 ggcttgtaga aaatgaagcc nnnaacgatt atagtaccg catnnattaa agaaactggt 360
 gagagtttat tcgaagttca cagaaagtta gattcttcag agctaaagca caatcttggt 420
 ggcttgagca taggggagga gtttattata aggaaagatc tcaaagtcaa agcctttaag 480
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 nnnnnatata tnnnnctatc tggaaatgaa attaagaact tgaaggcttc aggtgttgag 600
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<210> 183

<211> 1035

<212> DNA

15 <213> Arabidopsis thaliana

<400> 183

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20	caatagacaa	agattcatct	aaaaatgatc	caacggccag	aaaccatta	cgatgcaaat	180
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	aatcgggtgg	aggcaattgc	tctggtggcat	tttcatcgat	gaagacaaag	tcttagataa	300
	ttccggcgag	tccaccacca	ataagaggac	cagcccagta	aaccagtggt	ttgggtccacg	360
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	tcaaagtcga	gataaaactca	gcgagcgccg	ccctaagtgc	gttggggtgg	tagacctctt	960
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<210> 184

<211> 1033

<212> DNA

40 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(1033)

45 <223> n = A,T,C or G

<400> 184

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50	atttgagta	ttcttttagtc	gatcttcttg	ctccgaaca	ctttcatttt	ctctggtaaa	180
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	atgacggaag	atgatccggg	ggttgcaaca	aagttatgat	agagagtaat	cagaatgact	300
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55	acaacaggag	aatagnntaa	acgatnnnnt	gcttttgaag	aatcaaagt	tctgttgcaa	480
	gagagtagcc	taaccctaga	aggtgttagc	actggtactt	tcatcccata	cgggtccgagt	540

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5  aatttatatg ctagnnnnnc aagatatgct attggcatca tgagacttgc aggtatcttt 600
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   attggctcca tgttggtaat gaagtaagcc tggccagcag cttttgcaca tacttctcct 720
   cctgatgcta gagctcgctc agcacagaca tgggcgtgca caacattttc aacataagtg 780
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10 gtaacaagcg atggaaccat taatttatca ccaggaccaa atatgctgct aggacgtatg 900
   caacaagtga gtagtccact tcttccattc gctttcaaaa tcaaagcttc cccttcagct 960
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   atacacaact gtcaggaag caaggcagct gcttccttca atcgttgagc ttttaaagat 180
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   agactttact gagagattaa ccattgttga ggatctaact aaggcaacga tgaagaaatt 420
   aactcagggg atgactgagc acaacaaagc catgtcggct nnnnngacag atgaagagaa 480
   agcaggtatt aaaacaaann nnnagaatac tacaactgga cttaggacct gtaataacat 540
35 attggcgatg acaaagccat tgcattgcaa agtgccacct tttatcggag acactaatct 600
   caacctgtct tggaaagaag ccacaaagcc gttagcctca acaacaacaa caattggagg 660
   aaagcggcct gctaatagca acaatggaag tggtaacaat gttgcagcaa agaagggacg 720
   tgggtcgggt actatgcaa accagcttgt gnncaaggcc tttgagggga tatcatccta 780
   tggagctggg agagggcgaa accgaggttg gggaagacgt ggaggtgggc gaggaagagg 840
40 acaaggaaga ggtcactggt aataacaagt ttccagtaga ggattccatg actgtgtttc 900
   tgtttctgtg tctgtctgtc agtacaagtt ttgattttgg tacttagtag agtttgagga 960
   cttctcttct catatcagaa tagatcatct gtgtttttct ctgttcacta aagatatattc 1020
   gagcattaga aaa 1033

45 <210> 186
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   <213> Arabidopsis thaliana

50 <220>
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   <223> n = A,T,C or G

55 <400> 186

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5  ctgttttctt gttctgttct tagctaattgc agcttttgcc gtcaaattca acttcgattc      60
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   tgtaagccga tccggagcct tatccatgac ccgagacgag aacccattct ctcattggta      180
   aggtctttac atcaatcaaa tcccattcaa accttcaaac acttcttctc ctttttcatt      240
   tgaaacttct ttcactttct ccatcactcc tcgcacccaa cctaactccg gtcaaggctc      300
10  cgccttcac ataaccccg aagctgataa ctccggtgct tcagggtggcg gatatactcg      360
   aatcctcaac aaaaccaacg atggaaagcc agagaaccac atcttggcta tcgaattcga      420
   tacttttcag aacaaagagt ttctagacat tagtggtaac catgttggag ttaacatcaa      480
   ctcaatgact tctcttgtcg ctgagaaagc tggttactgg gttcagacaa gagtcggtaa      540
   aaggaaagtt tggctgttta aagatgtgaa tctgagcagt ggagagaggt tcaaggcttg      600
15  ggttgagttc agaaacaaag actctacgat tacggttaca ctgcgcctg aaaacgtaa      660
   gaaacctaag cgnnctttga tcgaagctcc cagagtgtcc aatgaagttc ttcttcaaaa      720
   catgtacgcc ggttttgctg gttccatggg acgtgccgtt gagcgtcacg atatttggag      780
   ctggctgttt gaaaacgccg ccaaaaaaca ctaaacccgt ttggttctgt ttataggcta      840
   agtatcgttt gttttgtttt tactttttta gtaattgtct catactactc agtggttaact      900
20  agagtgaata attatggttt gaataaaaca agccaagtgc gtggtttcat tactccgat      960
   tgccatattt gtattcagtc tgattaattc agatatctca ataaaaagaa ctttgttttc     1020
   atgtaaaaaa aaa                                     1033

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25  <210> 187
     <211> 1033
     <212> DNA
     <213> Arabidopsis thaliana

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30  <220>
     <221> misc_feature
     <222> (1)...(1033)
     <223> n = A,T,C or G

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35  <400> 187
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     actctcaaca ggctcaaate tggcgccgaa cgcgtctccg tttcctaaga catctataac      180
     caaggatcct cgtcggcgta tgatgtgact ctgacagata atagctggga taaaaagact      240
     tttgaagnnn ntaatggaaa cacttcaaaa tcatgggaaa gacttgatgc aggaggtatt      300
40  ctgtctcatt ctatcgaatt ggaggccaag gttaaaggag tcttctacgg tgctcctgct      360
     gtcgttactt tccgcatccc cactaagcca gctcttcagg aagcatactc aactccacta      420
     ctacctctag atatcctcgc agacaaacct ccaacgaaac ctttggacgt ggccaagagg      480
     ttgctggcga aatatggatc actcgtctcc gtgatctcca tgggtggttg tttcatatac      540
     ttggtggcaa cacctaagtc caacgtatca aaggcaagca gcaagaagaa gcgttaagtt      600
45  agtgaatga aagggtgagaa aggttggtac ggtgctgttt tctgtttaac agttaaacac      660
     agtttcaaaa cttgtaagaa ttagagaaca cactttaatt ttggtgttgc agaggacata      720
     cttcaagttc aaagagttat tttggtttta cttaatctct ttgtgagagc atagtcattg      780
     agttctcttt tatttgggtt atgccttttg cttatggttt tggtagcatt atcttttaca      840
     catgttgata atctttgttg tgtaaacttg tgtttgttct tgtctagttt cattgcctgt      900
50  tctgtttgct ttgtagtctg ttttaatacca catttttatt tgttggtgtt gtagagtcta      960
     gtctggttat tgggtaagta ttatgatttc gcctagaagt ttttttctgt tttgataatt     1020
     gctatgtttt ctt                                     1033

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55  <210> 188
     <211> 1033
     <212> DNA

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5 <213> Arabidopsis thaliana

<400> 188

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10 acgaagagat ggttcaattc atggaacagc tcgttacagg cgctactcca gcggaagagc
tcaccgttga agagaggaat ctctctctctg ttgcttaca aaacgtgatc ggatctctac
gcgcgcctg gaggatcgtg tcttcgattg agcagaagga agagagtagg aagaacgacg      240
agcacgtgtc gcttgtcaag gattacagat cttaaagtga gtctgagctt tcttctgttt
gctctggaat ccttaagctc cttgactcgc atctgatccc atctgctgga gcgagtgaat      300
15 ctaagggtctt ttacttgaag atgaaagggtg attatcatcg gtacatggct gagtttaagt
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atctgcagc tgccgatatg gcacactactc atccgataag gcttgggtctg gccctgaatt      360
tctcagtgtt ctactatgag attctcaatt cttcagacaa agcttgtaac atggccaaac
aggcttttga ggaggccata gctgagcttg acactctggg agaggaatcc tacaagaca      420
20 gcactctcat aatgcagttg ctgagggaca atttaaccct ttggacctcc gatatgcagg
agcagatgga cgaggcctga ggatctagat gaaggggggg aggggtgtta cgcgatgttt
ctgccaccaa atcgatctca aaatcccat aacctttgct caaaaactgt gaaaaaagat      480
tgaagtgttt atgatgatta tgattgtgca cagcttgatg atttatctac tctactaaac
ctctgtgctc ttaatattta ttgtctcgac tctgctcaag ccttaaaaac atctttctcc      540
25 ttaaaaaaaaa aaa                                     1032

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<210> 189

<211> 1032

<212> DNA

30 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(1032)

35 <223> n = A,T,C or G

<400> 189

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40 ttgcaggtag cctcctgaag agattgagcg gcacagaggg tagcttgtgc ctgaaccttg
gatgcctcag cacatagatc ccagcaagaa gtgcaacaac ctgaaacggc gtaacataca
acacgatagc agctatgaga cagaaaagca caaacaatgt ggttgccctc ggggtctctcc      240
agctcagcag cgataaaaaa cgctctccct gtgttgctag atcgctatc acggtctgaa
cccgtcctcc tatgcttctg agccgggtcat atcgcatccg cacaatctca gaggatcggg      300
45 aagtcgggaa agtatcaaac tcttcatcaa gctcgtcggg gtgaacagcg tctgcatggg
acaaccgtgt gtccatgtgt ggcgggtgcc ttgggtctcca cgggaaattc cagatcccaa
tcaagaaaag gtacaagaaa accgttgggg ggattaattc cgggtaaaga actaagataa      360
tgaaaagaac atgaatgaga attgtgggta ttgggtttct ccagttgcag atctgatcaa
accattttcc aacagcaatg agaccactca gaacattcat gattctgaag aagttagctt      420
50 tactcctcct catgctccac atatgggagt caacatcgag catgtactcc acaatctctt
tgcaagaggc cggctctgcg cgggttcagcc ttgccgagac aatgttcatc gcctgggtgtc
tcaggctgtc cagctggaga accgataacg gatnatgtn ntgcantntg ggtagtaatg      480
gctgagaata catatgaagc atgttgatga gagataggca agtgaaccgc acagctaact
gtatttcacc tgtcttcttg atcccagaag gatgaaagac gagtagcgga tatgaatgag      540
55 tgtagatacg gt                                     1032

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5 <210> 190
 <211> 1032
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 190
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 acccggtcctt ttcacccctcc gatggcattc cttgttcgtt cgcgggagat acccaccgtc 180
 tcggcgagaa tcttctccga tgcgaattcg agtggtatta gtcattgtgt tatgaggagg 240
 15 aaggctacgg ttctcgcgat tgacgccaga gatttgcctg gtgttaagaa tccgaaatcg 300
 agattgtact ggcaattctc agctccggtg aaagaagact acaagattag cagagaggag 360
 gaagaagaag aagaagaaga taagcagagt tactacgtga atatgggtca cgcggttcgt 420
 agtatcagag aagagtttcc tttgttggtc taaaagagc ttaattttga catttacagg 480
 gatgatattg ttttcaaaga ccctatgaac actttcatgg gaattgataa ctacaaatcc 540
 20 atatttgggg ccttacgttt ccatggaagg atcttcttca gagcactatg tgtggacatt 600
 gttagtgttt ggcaaccac agagaacact ctgatgatac gatggactgt tcatggaatt 660
 cctcgtggtc cgtgggagac tcgtggtcga ttcgatggta cttctgagta taaattcgat 720
 aagaatggca agatttatga gcataaagtc gataacatag ccattaattc gcctccaaag 780
 tttcaaagtc tcaactgttc agagcttggt gaagccatta gctgcccttc gactcccaag 840
 25 ccgacctact ttgagttcgg agattgattc atcatcatcg tctgaaacat catgctggtg 900
 ttatgtatac tagtagtctt ttgtgtggtt ataaatagag tggtagtgta atatagatga 960
 agaaggaacg atttaaaata aaccaatag catgaatata ttacacgctt tttttgcgta 1020
 taataatcaa ta 1032

30 <210> 191
 <211> 1031
 <212> DNA
 <213> Arabidopsis thaliana

35 <220>
 <221> misc_feature
 <222> (1)...(1031)
 <223> n = A,T,C or G

40 <400> 191
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 cgagtttctc agcttttctc ggatcatcta attaagagag gagatcttgt ctcacggtgg 180
 45 gattgatttt tctcttcacg aagatcgtgt tccaggcaat taactgcaga aaatggtgat 240
 gtgggtcttt ggctatggct ctcttggtgt gaaccanna tttcactacg atgagaaagt 300
 gttaggtttc atcaagggat ataaacgtgt ctttgatctt gcttgcatg atcatagagg 360
 tacaccagaa caccctgcaa gaacttgac cctcgagaaa gctgaagaag ccatatgctg 420
 gggtagtgca ttctgtgtcc gtggaggacc agaaaaagaa cgtctggcta tggagtactt 480
 ggaacgtaga gagtgtgaat atgatctcaa gacaagtgt gacttttaca aggaagatga 540
 50 tctctaaaag ccagctgtaa ctggagtgat agtattcact tctactcttg acaaggctctc 600
 caacaagtat tatctcggac ctgcgccatt agaagacatg gcaagacaaa tcgcgacagc 660
 caatggacca tgtggttaaca acagagatta tctcttctct ctcgagaagg caatgcacga 720
 cattgggcat gaggaggact atgttataga gctggcaaac gaggtgagga aggttctggc 780
 cgagtcctcg actaagaagg tgacaccggt gaaggaatca agagcaagcc gtgtagctaa 840
 55 caagtcgaag aacaatgtcc ccacggctca tcagatacta cctcatcatc cagaagctgt 900
 tgccactaca atataactct ttagtgtttc ttcttaattg gcttagaga tgagtgaat 960

5 cagggtctttt ttttaataat aataacaaag taagtttggt ttctgagtaa aaaaaaaaaa 1020
 aaaaaaaaaa g 1031

<210> 192
 <211> 1030

10 <212> DNA
 <213> Arabidopsis thaliana

<400> 192

	aacaagtaga	aactttaaaa	cgagagagag	agaaagaaat	ggcgacatcg	ggaacgtacg	60
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	accatgtctt	cgctgacgcc	attggccacc	acatccaaaa	tgtcgttggt	cacgaaggcg	180
	aacatgactc	tcacgggtct	atcaggagtt	gggactacac	atatggtata	catttagtca	240
	tttacttata	ctttctctct	atatatttat	cactttttacg	gcctatgtgc	gtccgaaact	300
	atggttttgg	tgggtctactg	ccaaatatga	aatactacat	atgatcatta	attaaggaat	360
20	ttgtttctata	agacccaaaa	catatataat	aatcatattt	tgcatttatg	tttacatatg	420
	aaaacgaaag	tcatatgttt	aaaagtaaaa	agtattttca	tatttgagaa	taattttgaa	480
	aaatataaac	ggaaaaacat	gatagtcaga	tattaatcct	tatggtataa	ctagctagtg	540
	ggatgttggg	aattgttaact	aataaacaca	tgtgtgtaag	atggaaagaa	ggagatgttc	600
	aaagagaaga	gagagataga	tgatgagaat	aaaacattga	cgaaaagagg	actggatggg	660
25	cacgtgatgg	agcatctcaa	agtatttgat	atcatctacg	aattttattcc	caaatctgag	720
	gatagctgcg	tctgcaaaaat	cactatgata	tgggagaagc	gcaacgatga	ctttcccgaa	780
	ccaagcggct	acatgaaatt	cgtcaagcaa	atggttggtg	acattgaagg	ccacgtcaac	840
	aaagcttaac	cacaaccatc	accgtcatca	ctatctcgat	cgatattgta	ttattatggg	900
	gtcttttcga	taatcaatat	aataaagggg	gtcttggtga	gtttctattc	tctgtaactg	960
30	tttggttttg	gaatatgctg	tgatatgttg	ttatgctcat	catatatcgg	tttcgatata	1020
	atgagtatta						1030

<210> 193
 <211> 1029

35 <212> DNA
 <213> Arabidopsis thaliana

<220>

<221> misc_feature

40 <222> (1)...(1029)

<223> n = A,T,C or G

<400> 193

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	gaagatcatg	aggaggagga	agcagagttt	gtgaaggaag	aggtccatct	ttnnngataa	180
	accccatgtc	taaacccac	gaagtannnn	nnctagatg	acagtgaata	aaccaaactc	240
	ctggattatc	cgcattttatc	ctaattcgccg	cccatcctcc	cgtcggcact	gcaaanntat	300
	tcctctccgg	cggatccacc	aagttgtacc	ttttcggatc	cttctccggg	tcanaattcc	360
50	caaatcctct	tcccactacg	aagaaattgt	gtccgtgtac	atgtaaagga	tgattctcga	420
	tgtttaagaa	actcgttccc	tgaaacacga	tctctaattct	cgatccgaat	tcgacttcga	480
	aaagcttcgt	accgaattct	gtgttcattgt	tttccgatan	nnnntctact	cccgtgaaat	540
	cgaatctgtt	cggtggtttc	tctgggaaat	cgagtgaaga	aactcctttg	ctctgtttct	600
	tatagtagct	ttcgaggatc	gatatcggag	gtctgacaaa	tgagatgttg	ttcattgatg	660
55	cgaagaatct	cttccctgcg	taaccgtcgc	aggtctgatt	taacggacaa	tcctggagat	720
	tgagacttat	cgtggtgatc	actcgcttgt	ctatcttcgt	cgggacttta	catggatact	780

5 tcgctgatcc cagacttttg atgctatcgg agaatttcgt cgcgaatttc gtatccagca 840
tattcgggag agctacgact gtcgacattg ccgttaatcg ccgtctccgc cgtgtgttta 900
cggaattttc cggtttggtt ttaccgggtg aacggatgaa tcctacgggtg gttgagttgt 960
tgaaaggaaa gacggaagtg acgtaaggag ttgcggcgat gagaaattca ccgccggaga 1020
gttggtcgg 1029

10 <210> 194
<211> 1028
<212> DNA
<213> Arabidopsis thaliana

15 <220>
<221> misc_feature
<222> (1)...(1028)
<223> n = A,T,C or G

20 <400> 194
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ctggtttcat gttcctgtct tacaattata caaggctaag taagcttaca ttctttgatc 180
25 acagaccgca ccgtgattca tctgagccca ccacagcttc tgattagatc aatcatcctg 240
tcagctcctc catttggtccc cgagcaatgt atggttccgc atcagtagct ttgaggaaat 300
gcatagaatg acgggcaaaa tttgttggtt tgtcactcag cagcatcctc tcatcaatat 360
catccaaaat tctgacctg atataaggat cttnnnggagg gaccatatcg acattcaact 420
cgattcctac ttttcccatg tatgatttta gagcaaccga atggtttttg aagtattcct 480
30 tctctagtgt agtgagcttc tcttggtatt cagaggggaag gtcgagaagt tcaagcccta 540
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gcttgctccg gatcaaaagca aggtggtgaa ttagtgtcc atagtggta gcgtttctgt 660
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gattctggtc acactcctcg attgtttcat caaagagttt gctgttgaaa gggttgagct 780
35 gacctttctc tccggtggca aaatccttga taagctgata cccttttctc ccgtacatgt 840
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cgttgctgat gtcgccgaat taacggatga taacaaaacc gtagatctaa acaaacgta 960
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gatttcca 1028

40 <210> 195
<211> 1028
<212> DNA
<213> Arabidopsis thaliana

45 <400> 195
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atggtccttc tggagagctg ggattgctga gtttatagct acgtttttgt tcctgtacat 180
50 cactgttttg actgttatgg gtgtgaagag gtcaccgaac atgtgtgctt ccgtcggaat 240
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tatctccggt ggacacatca acccagcggg tacgttcggt ttgttcttag ctaggaagct 360
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tggtgtggtc aaggggttcc agccaaagca ataccaggct ttgggaggtg gagccaacac 480
55 catagctcat ggctacacca aaggaagtgg tcttgagct gagattattg gaacctttgt 540
ccttggtttac accgtcttct ctgccactga tgccaagaga aacgctcgtg actctcatgt 600

5 tcctattcta gcaccgctcc ctatcggatt cgctgtgttc ttggttcact tagcaaccat 660
 cccattact ggaactggaa tcaaccacgc aagaagtctt ggagctgcaa tcatcttcaa 720
 caaggacaac gcttgggatg accactgggt cttttgggtt ggaccattca ttggtgctgc 780
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 10 tctactacct gtgtgtaacg tgtgtatctg ttgtcctctt ctttgcctaa tggagactta 960
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<210> 196

15 <211> 1028

<212> DNA

<213> Arabidopsis thaliana

<220>

20 <221> misc_feature

<222> (1)...(1028)

<223> n = A,T,C or G

<400> 196

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 catctacaag atcgggatca aagcactttg gttggccgcc cgctacataa agagggtccc 180
 ctaccaaggg atgtcccatg tatgcaagat gaatccggat ttgatgtggt cttccagatt 240
 gtatctctac cttacaacg gagcaatttt tttccctgtc cctctccaga acaaatactt 300
 30 tactgaaagc aggtttccct tccggagaag caacatataa tccttgtgcg accccaggat 360
 atcgaaccac tcctataggc tgtttgatta ctacctgctc ttcttcaact ataccatctg 420
 ctagtgtctg atatatcttt gatagttttc ttctgttcc acactcttga tccaggttgc 480
 cggagccgac aagagatggt nnctcagcaa aatacgctgc aagtttcggt tttgccagct 540
 tgggtctttgc acagagaagt atacctgaag ttctctacc cagtcgatgt acagggacag 600
 35 gatgtggtga ttcacgcgat ccgatgtaag agtcattttt accaaaacac cactgcagct 660
 gcgtaaacac agtccgttgc tggaaaagtc ctccgggcaa tacttgaagt ccagaaggct 720
 tgtttaaagc gatcaaatca tcatcttcat acaaaaacttc aagcgagat ggcgtgtcag 780
 gttccttcca aggaagccta ctgtaaaacta atttcgaacc actcctaaga agtgtgttgg 840
 gatcttttac aacttcaccg tcaatttgta tctgtccggt ttggattcgt tgaatccacc 900
 40 ctagcaatgg agctgaactc ttgtatttgg tgaagtagaa ttctgacacc gtcgttaact 960
 ctgattcaga agaagagatg gcatccttgt atgccaaacc atcgtaagc tcaggccatg 1020
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<210> 197

45 <211> 1027

<212> DNA

<213> Arabidopsis thaliana

<220>

50 <221> misc_feature

<222> (1)...(1027)

<223> n = A,T,C or G

<400> 197

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5	gtcgcactcac	ttgtgggtccc	ctgagttcga	gcagaaggta	gactcaatgc	tacgatcagt	180
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<211> 1026

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25 <213> Arabidopsis thaliana

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30 <223> n = A,T,C or G

<400> 198

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55 <213> Arabidopsis thaliana

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 <212> DNA
 <213> Arabidopsis thaliana

35 <400> 200
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 tgatttcatt catagtttga gtacttcact aagtaaggat ctaaatttat attataaaag 180
 ccttaaataa agatttggtt ttttcaagac gattccaaaa taagatcagc aacggcggct 240
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 45 gcggaagcgc attttccagt gagaagattc tcagagttac attttctctt tgttgatttt 600
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	cacgccaccg	tcttcgtcgc	taaattcttt	ggtcgtgctg	gtctcatgtc	tttcatctcc		240
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	gtttcaagaa	accaaaccga	ccattgtcgc	ttctccacct	ccagatccac	gacggagatg		540
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	ctctttttta	gggttttgag	tggaatgga	tatttagtta	atgatttttc	tctatcgaga		900
	aatatgataa	aattttgggg	atatataatt	tgccgatgag	aataaataat	ctgttgagaa		960
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<211> 1024

30 <212> DNA

<213> Arabidopsis thaliana

<220>

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<223> n = A,T,C or G

<400> 202

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	tttcttggtt	ccttcgactt	tccaaagatc	ccagactttg	gttttaggag	gaggagtacc	240
	atctccaatt	ggagcgatta	gtcccggttt	ccatcatcgc	attacagcgt	cgatcaaac	300
	atattctttc	gcctcccatg	gattcaagaa	ggtatcacgg	tctgtgtcac	tttcgatctc	360
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	cattttctct	atacgtatgc	tcatttccgt	tgctttgcct	ccagcagtag	caagtggctg	480
	atggatcata	acttttagagt	taggcataca	ataccgtttc	ccttttgaac	cagaagcaag	540
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	ttgtttcatt	gcatcatata	ttcccatccc	agcagtaata	gatccaccgg	gtgaattgat	660
50	aaaaagcgta	atgtctcttn	nngagtcctc	agcatctagt	aacaatan	nnngactataac	720
	caaataccgcc	gtcatatcat	caacctgaga	acccaaaaag	acgattcttt	gacggagcaa	780
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	atcaatggag	aagctagata	catcccagtt	actagataag	gtttgtctgg	gtggtttaga	900
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30
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5 <211> 1023
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 aagaaaacca tcatatatag aagaagacat tttacattct gaggaatgct ttctcgaatt 240
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15 <213> Arabidopsis thaliana

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40 <213> Arabidopsis thaliana

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<211> 1019

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<400> 212

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<212> DNA

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15 <213> Arabidopsis thaliana

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<210> 219

<211> 1013

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<400> 219

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<211> 1012

<212> DNA

40 <213> Arabidopsis thaliana

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 50 attcctttca agtttctttt cgccatctcg atggagattg gtaataactc gtccaacaca 480
 gtcatgctgt ttgggatgtt cactactttg ttgtacctgg agatcttggg gatgaagttg 540
 cgcggttgt ttagatccga ggagatcggc atccttacc ccaatgtgca tacgttgtca 600
 tactccttta gcagctcttc gaccatggct ttggttttcg agtagaaaga gccagtgaag 660
 ttgggtgtgt cttcctcctt gaagccaatt cctgaacctt ccggatgctt gtcgtcatat 720
 55 tcgaatatac aaccagtagc gaaattcatc attaggagtc cgtgctctct gcagacatca 780
 gctagagtca atgtgccagc tacattggca cggatagtct cggctctgtg agactcacac 840

5 cagtcaacat tgggtctccc agtcacacca gcggaattga aaacatgggt tggcttaaca 900
ctctgaatat cctgcagaag agaagatcga tcctccaacc gacctttccc atactcgtaa 960
gcaattcctt gcttatcaca tatctttcca agcagaccac cgatccatcc gg 1012

<210> 221
10 <211> 1011
<212> DNA
<213> Arabidopsis thaliana

<220>
15 <221> misc_feature
<222> (1)...(1011)
<223> n = A,T,C or G

<400> 221
20 tttttttttt aaaaaataga caagacttgt ttcattcatca tcagttacaa gaaagaaaga 60
aatacacatt tgtgttaaata cacataatca gaccactcgg ttaaatacga tgtctgggtcc 120
atagtcagac aaggaatctt atcatgtttt ctccgattct ctttcccacc aatcaacctc 180
gccggatttc caaccgccgt cgtacgcgcc ggcacatcct taaccaccac cgaccctgat 240
ccaatcttag ctccctcacc gattgntata ttcccccaata tacaactccc agctccaatc 300
25 aacacaccat caccaatctt cggatgccga tcaccactct gtttccctgt tcctcccaag 360
gtcactccgt gtagaatcga aacattgtct ccaaccaccg ccgtctctcc gatcaccacg 420
cccgtcgcgt ggtctaaaag aatccctttt ccgatcttct ctccgggatg aatatcgacg 480
gcgaaagatt ctgatactct gttttggatc aataaagcta cgatttttct gttctgtttc 540
cagaggggat gagctattcg atgagcttga caagcgagga agcctttgaa gcccaagaag 600
30 caatgaacgt agcttatata agctgggtct ctttctttga ctgctataag atcttgcttc 660
gtggattcga tgatctcagg gctttcttct aaaacgctta tgaacagtcc gaagagtgtg 720
ttgcttggtg ggttttaaatt gctgagcttt acggagagga tgtgagctaa agcagactct 780
aaagatcgat gagatgtgat cgaagcgtag tagtagtttg ataaaatggg ttcttgttta 840
acatcggatt tggcttcttc aagcatcttg atccagacat catcgatcat ttcgatttgg 900
35 gtgtggtgaa tcttccgggt tacagagaaa ccgggtcgaa agaaattctt gatgcaacag 960
aaccgggaat catcgctctg ggtattaccg gttcggcatg tgtctatgca t 1011

<210> 222
<211> 1011
40 <212> DNA
<213> Arabidopsis thaliana

<220>
<221> misc_feature
45 <222> (1)...(1011)
<223> n = A,T,C or G

<400> 222
ccacgcgtcc gggacgaacc ggtgtaccac gatttggttc gtcactgtct ggcctaccca 60
50 aaagcggatg gaatcttggg gaatacatgg gaagagatgg agcccaaata attaaagtcc 120
cttcaagacc cgaaaactttt gggccgggtc gctcgtgtac cgggtttatcc ggttggtccg 180
ttatgcagac cgatacaatc atccacgacc gatcaccctg tttttgattg gttaaactaa 240
caaccaaaac agtcgggttct ctacatttcc ttccggagtg gtggttctct aacgggtcaa 300
cagttaaccg aattggcggtg ggggctcgag gagagccagc aacgggttat atgggtgggt 360
55 cgaccgcccg ttgacggctc gtcttgcagt gattatttct cggctaaagg cgggtgaacc 420
aaagacaaca cgccagagta tctaccnnnn nggttcgtga ctctgacttg cgatagaggt 480

5 ttcgatgatcc catcatgggc accgcnnngct gaaatcctag cccannnnnn ngttgggtggg 540
 tttttaaacac attgtggttg gagctcgacg ttggaaagcg tcctttgcgg cgttccaatg 600
 atagcgtggc cgcttttcgc cgagcagaat atgaacgcgg cgttgcttag cgatgaactg 660
 ggaatctctg ttagagtgga tgatccaaag gaggcgattt ctaggtcgaa gattgaggcg 720
 atggtgagga aggttatggc tgaggacgaa ggtgaagaga tgagaaggaa agtgaagaag 780
 10 ttgagagaca cggcgggagat gtcacttagt attcacggtg gtggttcggc gcatgagtcg 840
 ctttgacagag tcacgaagga gtgtcaacgg tttttggaat gtgtcgggga cttgggacgt 900
 ggtgcttagt aatggttact gttttctagc tcttttagtg ttgaatttac ttgtcgtttc 960
 ttaatgtgta tttttcattg taatagaata atcgatgttt tgtaataaaa a 1011

15 <210> 223
 <211> 1009
 <212> DNA
 <213> Arabidopsis thaliana

20 <400> 223
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 cgattctcaa cctggttagca gaagctggag ctatgattct cttaaaaact tccgtcagat 120
 ttctccagcc gttcagaatc atcttaaagc ggtttatttg accttatgtt gtgctcttgt 180
 ggcgtctgcc tttggagctt acctccatgt gctctggaat atcggcggta ttcttacaac 240
 25 gattggatgt attggaacta tgatttggct cctttcatgt cctccttatg aacacccaaa 300
 aaggctttct cttctgtttg cgtctgctgt tcttgaagggt gcttctgttg gccccttgat 360
 caaagtggca attgatgttg acccaagcat ccttatcact gcgtttgttg gaactgcgat 420
 agcgtttgtc tgtttctcag cagcagcaat gttagcaaga cgcagggagt atctctacct 480
 tggaggactg ctttcatctg gcttgtctat gctaagtgtg ctccagtttg cctcttcgat 540
 30 ctttgggtggc tctgcatcta tctttaagtt tgagtgttac tttggacttt tgatctttgt 600
 gggatacatg gtggtggaca cacaagagat tatagaaaag gcacacctcg gtgacatgga 660
 ctatgtaaaa cattcgttga cctttttcac tgactttgta gctgtgtttg ttcggtattct 720
 catcataatg ttgaagaact cagcagataa agaagagaag aagaagaaaa ggagaaactg 780
 aggggatgta aagtaaatat aactttatgg ttgttatcgt gtgtggccac tttgaagata 840
 35 ttacttgttg gcaactctcta ttggtgacca gacatgtttc cactaaaaag gatctgcttg 900
 tttcacttct gcacaagtac catcttcaga ttgtaaatga ctcgagtgtt gttcttcttt 960
 tcataaaactt ttgttcttta agagtttggg tctactgatt gcactttac 1009

40 <210> 224
 <211> 1008
 <212> DNA
 <213> Arabidopsis thaliana

45 <220>
 <221> misc_feature
 <222> (1)...(1008)
 <223> n = A,T,C or G

<400> 224
 50 ggcgcgccctt tttttttttt tttttttttt tttttttttt tttttaagca cacaaacgca 60
 tcaccacggt aggattagtt ttgttccata tcaatggctt aattgtacaa acacataaat 120
 aaaagcatat aagaaagaag aagtgtgcaa caagacaaaa ggaattggta aacaagaaag 180
 ttcaaagtca actttttttg ggttcaacgt cacaaatacg caaagtaaag gactcatttg 240
 ctttgcctcta tcttggcctt cctctttctc ttgacaaaga agacgacaag agccacgacg 300
 55 gagaagacac tgaacagat ggaggcaata tctagggacg cgtggcggcc actgatagcc 360
 tgaacgctga agagattggt tttcttggca tcgtcgggtgc tctgtccata ggcaacttca 420

5	tggccaatgg catcaaccgc gtaggcacga acgaagtagg ttccggtggg gatgtcacgc	480
	tcaagagtnn aagtagttga ttgaagtgtt ttgtcataag gcttggtctat gatcttgtgt	540
	gggcaggtct tgtctttgaa gagctcgtca tgggttttgc gccatggtcg gtcaacttgg	600
	ctaggtggag cgtagcatag ctttaactttg atgatcttaa attcagcctc tcttttagac	660
	ccaatcgagc ttagcggtcca tgtaatgttc aacgtatcct tgccggcatc caaaacaaca	720
10	cctggtcctt ctcggtctggg tttagtgggtg acatcaagtg cacctttgtc cagctctttg	780
	aagagtctta ctttttccgc cccgtggatg gattggatca gtgagcatat gagaagtgaa	840
	gcaaagagga tcttctggat cgccatggat atatccttga aacctttcga agacttggga	900
	agattgtgtt cctctctctg cacaagtgtc tgtgttgtct ccgtccagct gagagatggc	960
	tcctaaacat gccaaaggat gagatatgag tatttgtttt atccggac	1008

15
 <210> 225
 <211> 1008
 <212> DNA
 <213> Arabidopsis thaliana

20
 <220>
 <221> misc_feature
 <222> (1)...(1008)
 <223> n = A,T,C or G

25	<400> 225	
	cgacttcctc ttcctctgac tttgagcagc tctgtcttct tctcgaaatc gtctcctgtt	60
	tcttctgctt tcatggatgc ttcaaatccc aattcttcta gaaaatctaa tgtctcttcc	120
	ttcgctcagt ccagtcgaag cggtaggtaga ggaggaggat atgagagaga taacgatcga	180
30	cggagacctc agggctcgtg cgacggtgga ggcggaaagg atagaatcga tgcacttgga	240
	cgactcttga cgagaatatt gcgacatatg gctactgagc tgagattgaa catgagaggt	300
	gatggttttg ttaaagtgtga agatttactt aacctgaatt tgaaaacttc tgcaaatatt	360
	cagttaaaagt cacacacgat tgatgaaatt agagaggctg tgagaaggga caataagcaa	420
	cggtttagtc tcatcgatga gaatggagag ctcttgattc gcgctaacca aggccattcg	480
35	atcacgacgg ttgagtcaga gaagtactt aaaccaatac tgtcaccaga agnngctcca	540
	gtgtgtgtac atggaactta taggaagaat ttggaatcca tcttagcatc gggcttaaag	600
	cgtatgaata gaatgcatgt tcacttctct tgtggattac caacagatgg tgaagtgatt	660
	agtggcatga gaagaaatgt aaatgttatc atcttcctcg acatcaagaa agctcttgaa	720
	gatgggattg cgttctacat atcagacaac aaagtgattt tgactgaagg cattgatggg	780
40	gtattgcctg tcgattactt ccagaagatc gagtcttggc ctgatcggca atccatacct	840
	ttctgattca tataattcaa catcatgcga agattgacag gatcctatga caatgattgt	900
	gaggattctt ctgaaccttg attatgtaat gttgtctcag tgttttcaat tgcacatatg	960
	acaatttatg aaaactttca agattatggt gtttcctttg cccaaaga	1008

45
 <210> 226
 <211> 1007
 <212> DNA
 <213> Arabidopsis thaliana

50
 <220>
 <221> misc_feature
 <222> (1)...(1007)
 <223> n = A,T,C or G

55
 <400> 226

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	tggatctttg	tcgatcatctt	tttgctgcta	aatgttaacg	gatggcacac	atatttctgg	120
	atagcattta	ttccctttgc	tttgcttctt	gctgtgggaa	caaagttgga	gcatgtgatt	180
	gcacagttag	ctcatgaagt	tgcagagaaa	catgtagcca	ttgaaggaga	cttagtggtg	240
	aaaccctcag	atgagcattt	ctgggttcagc	aaacctcaaa	ttgttctcta	cttgatccat	300
10	tttatcctct	tccagaatgc	ttttgagatt	gcgtttttct	tttggatttg	ggttacatac	360
	ggcttcgact	cgtgcattat	gggacagggtg	agatacattg	ttccaagatt	ggttatcggg	420
	gtcttcattc	aagtgttttg	cagttacagt	acactgcctc	tttacgccat	cgtctcacag	480
	atgggaagta	gcttcaagaa	agctatatct	naggagaatg	tgcaggtttg	tcttgttggg	540
	tgggcacaga	aagtgaagaa	aaagagagac	ctaaaagctg	cagctagtaa	tggaaacgaa	600
15	ggaagctctc	aggctgggtc	tggtcctgat	tctggttctg	gttctgctcc	tgctgctggg	660
	cctggtgcag	gttttgcagg	aattcagctc	agcagagtaa	caagaaacaa	cgcaggggac	720
	acaaacaatg	agattacacc	tgatcataac	aactgagcag	agatattatc	ttttccattt	780
	agaggatcat	catcagattt	tagcttcaag	gtccgggttt	gtgggtttata	cataagttat	840
	agtgacttga	tttttttggt	ttgttacaaa	gttaccatct	ttggattaga	attgggaaat	900
20	tgaatctgtt	tgtatatgtt	attatttgga	acattgtgga	tgcccatgga	tatgtttctg	960
	ttcaattatt	ttggttttgg	gtaatgaaat	ttgaaaccaa	cgaaaaaa		1007

<210> 227

<211> 1006

25 <212> DNA

<213> Arabidopsis thaliana

<400> 227

30	tttttttttt	ttgcagatgt	ttttgcttaa	gttgatcttt	acaggcttta	tgcgaattac	60
	atggccttata	tcaatgactt	atcgagaagg	taaatatgta	caatgagaaa	gcaccacact	120
	atataaaaca	ttagccgttt	caaaacactt	tcaatatgag	acagaaccga	gtccttctct	180
	gctacattct	tcatcaaaga	aacttgtcac	aatagtttcc	acatcctgca	atccaactcc	240
	tacacaaagg	gtcttggatg	gtgtcctaac	tgaatcagtc	atcacagcat	cagtctcctt	300
	cacaactcta	acgtttgggc	catcacgaca	cttccccatg	cacttgcaag	ccacagcaga	360
35	tccttcgaaa	ccgctcatcg	ccctttgaaa	ctcatccaac	aacaaagctc	ctcctgatct	420
	cttacacttc	cctcccatac	acacttctac	tctattcaat	ggtaatccaa	ccactgaaac	480
	cgtctctacc	gtcttcaatg	tctgtccagg	attggccatt	gaaggaaaaa	ttgtggatgt	540
	ttgtagagca	atctgcaatg	cttactgggt	gttcttgcaa	gaaattgcat	cctcttggtt	600
	cctaggaagg	gttgctactg	tggtctctgg	ttgtaacggc	tcaagaaccg	gttttagcctt	660
40	gtttctttaa	gagctcatgt	ccacaacttt	gcctttatca	caatcactat	cacttgattc	720
	agacgaagaa	gatgattcag	agtccatttc	agtcattctc	ttcatggctt	tggtcttagc	780
	cttctcttct	ttcctctgtt	tcttcaatat	cttctcctct	gctttcaact	gctccagctg	840
	cttaaccaat	atctctgtag	cttccgagat	tgtcttggtc	tgaatctcac	caaccaaac	900
	agcttcagga	tcaagaccaa	accctatact	agagaacata	tccaagttct	tagaaagact	960
45	tttaagaact	ttcgcttctt	tcttcaacgc	cttcttctcc	ttctcc		1006

<210> 228

<211> 1004

<212> DNA

50 <213> Arabidopsis thaliana

<400> 228

55	tttttttttt	tttttttttt	tttttttttt	ttgatagaat	caatcaacag	agataaatatc	60
	tccgaagaaa	tttgttat	agagaatgac	aagtgactta	acattacggt	tccagatacc	120
	aaaataccta	atcacgaact	gttacatcaa	atctaaagca	gaaccagaac	aaaatagaga	180
	acacacaaaa	ccaagtagaa	gcataacaag	cgagagagag	aacattcatt	ggtaatccca	240

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5  aacctaatta aaggaattac catcctccac caccaccgct tcctccgtaa cctcctcctt 300
   caccaccacc gtatcctcct cctccctcac gtcttcacc accgtagctt ccgccaccac 360
   cacctcttga ggagtaaccg ccgcgcgcgc cgctgtatcc tcctccaccc tcgcgtctac 420
   cgccgccacc tccgtagcta ccacctccac cggagtaacc tccaccaccg ccgctgcggt 480
   atccaccgcc accacctcca cgggtggcctc cgccgccacc gcttcctcgt gactgagcct 540
10 cgttaacagt gatgtacgg ccacgcagat cttgtccgtt cattccctca atcgcatcct 600
   tcatggcttt ctcacccctg aaggtgacga atccgaatcc ccttgatctt ccagtctcac 660
   gatcgttaat gatcgatttg ggaaaatata agtaacagta gtagtagtag tagtaacaaa 720
   gaacgagaat agtaacagag taatcgaatc aagtaacaga gaaacacaag atcggaacag 780
   atccgtcgag gatgagatca tcgatatac tcggagtccg atctcggcgt gtaacagacc 840
15 ttggaatcaa taacgtcgcc gtattgagcg aaggcagctc caagagctct gtcacagtg 900
   gcccatgcta gacctccaac gaagcaccga tactcaacat caccggacgc cattgaaatt 960
   tgaagaagaag atctaaggga ttacagttag agtcggacgc gtgg 1004

```

```

20 <210> 229
   <211> 1003
   <212> DNA
   <213> Arabidopsis thaliana

```

```

25 <220>
   <221> misc_feature
   <222> (1)...(1003)
   <223> n = A,T,C or G

```

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30 <400> 229
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   ttcatacata caacaaaaac aactcatgaa cctttggtaa acaagaagaa agaaaccgat 120
   gcaaataaag aaaacgaaaa tggagttttt aaaaattatt aaaacaacaa aagaaaaaaa 180
   aaagaagaag agttgttacg aggcgtgaaa gatgcgttgc ttcttgtac acaccaacga 240
   taacatctca gtatcggtta ctcttttgtt tcctacgacg tcgtttcttg aactctccgg 300
35 tgaaatgtta actccgaaca atctcaaaac ccgaccgcga tctaaatctg acccgatct 360
   cgacttccac ccaatgtaca actgttgatc ctgaccgtta gatctactga aactaaccac 420
   gtcaccagca cgtagattct tctccttaac gaacctgtc caacctttag tcaaaacata 480
   actctgacta ctgttccaat acgagtaacg gaacctccac actttcccgt taacgtcctc 540
   aaagtccaac aacactcctt tcacggaaac gttacttgac ggtaacggaa aatgtttctc 600
40 tgcgtgatgt ttccgtataa ccaaaccggt tagcttccca acgtcgcttg gcgttacccg 660
   tttctcaaac agtgccctcc cggattttaa ctccgtcgta gaaacacccat cattactcaa 720
   ccccgacggt aacaacgtcc tagtcatgtt tccgttacca ttacgacgcc gtttactctg 780
   ctctaactct tcgttataag tatgtttcct caacatatca acgatctcag atttcgaatg 840
   agaattcaag aaatcgacct cgtcttcgtc catcttcacg tctttgaaat ttgtgacggc 900
45 gtcacggcga cggaaacctg gaannnnnnn nnnntaggca cgagcggctn nntcttcttc 960
   gttgaatgtc ccgagccaca cgcgctggtg tttctcgtaa atc 1003

```

```

50 <210> 230
   <211> 1002
   <212> DNA
   <213> Arabidopsis thaliana

```

```

55 <220>
   <221> misc_feature
   <222> (1)...(1002)
   <223> n = A,T,C or G

```

5

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<400> 230
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gg tactttata cccaggaaag ccactagcca atgtcgcttt caagacatac ggatacatca      120
gtatgtctca agccttgtac tttgtaggag acttcaagct tggcactac atgaagattc      180
10 ctccaagatc aatgttcacg gtccagcttg ttgcaactgt ggttgcacat actgtctgct      240
tcggaacaac ctggtggctc attacatccg tcgagaacat atgtaatgtc gatttgcctc      300
cggtgggtag tccatggact tgtcctggag atgaagtgtt ctacaatgca tcaatcatat      360
ggggagtgat tgggtccagg agaatgttta ccaaagaagg tatctatccc gggatgaact      420
ggttcttcct tatcggtctc ctgcgtccag ttcccttctg gtacctatcg aagaagttcc      480
15 cagagaagaa atggctaaaa cagatccatg ttcccttgat cttctctgca gtaagcgcca      540
tgccacaagc taaggctgtg cattactggt cctnnnnnnn nnnnnngnnt gtgttcaact      600
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cgcttgatgc aggtactgag attatgggag tgttgatatt cttcgcatc cagaacaatg      720
atataagctt acctgattgg tgggggcttg agaattcaga ccattgccct ctagcgcat      780
20 gccctctagc caaagggtgt gttgttgaag gttgtcccgt gttttaagaa ttgaagtaga      840
tgcaacgttg tcctgaaagg ggtaactgtt gatggcttcg gtaaccttat atctgtgtaa      900
aaccctccaa gttaagggac tcaacaatg taaagcacta gatttgggtt catgttcttc      960
agtatttaac tattcccttt gtaagtataa gaacagtagc ca      1002

```

25

```

<210> 231
<211> 1002
<212> DNA
<213> Arabidopsis thaliana

```

30

```

<220>
<221> misc_feature
<222> (1)...(1002)
<223> n = A,T,C or G

```

35

```

<400> 231
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attggtgaat tataaaagat gcagcaatct ccacagatga ttccgatggg tcttccttca      120
tttccgcccc ccaataatat caccaccgaa cagatccaaa agtatcttga tgagaacaag      180
aagctgataa tggcgatctt ggaaaatcag aacctcggtg aacttgcaga atgtgctcag      240
40 tatcaagctc ttctccagaa gaatttgatg tatctcgctg caattgcgga tgctcaacct      300
cagccaccag cagctacact aacatcagga gccatgactc cccaagcaat ggctcctaata      360
ccgtcatcaa tgcagccacc accaagctac ttcatgcagc aacatcaagc tgtgggaatg      420
gctcaacaaa tacctcctgg gattttccct cctagagggt cattgcaatt tnntngcccg      480
catcagtttc tggatccgca gcaacagtta catcaacaag ctatgcannn ncacatgggg      540
45 attagaccaa tgggtttgaa taataacaac ggactgcaac atcaaatgca ccaccatgaa      600
actgctcttn nngcaacaaa tgcgggtcct aacgatgcta gtggaggagg taaaccggat      660
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ggtggtgatg caaaaactga aggaaaatga aatagaggaa gaataagtga tgcttcttgt      780
tgatatcaat taggttctac ctttcatttt tactttcttc acgatgatat aaaaaaaagg      840
50 ttttgcatt ttatgagtta gtctctgtta aaagggttct gagacagttg agtttcagtt      900
cctagatgga tgtggaatgg ttcacattca catgtacaat gttaaatgtt gttgtatggt      960
attagtgtca ccggttcaat ttggtgtaaa aaaaaaaaaa aa      1002

```

55

```

<210> 232
<211> 1002
<212> DNA

```

5 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(1002)

10 <223> n = A,T,C or G

<400> 232

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aagatcatag	aatcattagt	accattnnnn	nnntgctgt	tttgatttgg	ctgaccaaat	960
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30

<210> 233

<211> 1001

<212> DNA

<213> Arabidopsis thaliana

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<220>

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<222> (1)...(1001)

<223> n = A,T,C or G

40

<400> 233

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10 <212> DNA
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<210> 235
 <211> 999
 <212> DNA

40 <213> Arabidopsis thaliana

<220>
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 45 <223> n = A,T,C or G

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 ttccacacca tttgttttct ttaacaattt tatacattac atatccataa atggaaaaca 240
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 55 cacaaacccc aacaaaacaa aattaggtca ctgagatttg actgttacct ttaaggaatt 480
 tcaatctcat catogaagcc tatccacaat aaaaccaatc gtcgaatcaa atcttaatta 540

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15 <211> 999

<212> DNA

<213> Arabidopsis thaliana

<400> 236

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<210> 237

<211> 999

40 <212> DNA

<213> Arabidopsis thaliana

<220>

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45 <222> (1)...(999)

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<212> DNA
<213> Arabidopsis thaliana

20 <400> 238
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40 <211> 997
<212> DNA
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<400> 239
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<212> DNA
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35 <210> 241
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<212> DNA
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40 <400> 241
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10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 242

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	agcgtttcaa	aactgcttcc	actcatcctt	cctttgatgg	actcagaatc	tgtgcattgt	660
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	gatgtctcca	aacctatadc	aaccaagagg	cctgtggtga	atgctgatcc	cacaccagca	780
	cgggttcctg	aagggacaag	ctcttcaaaa	gattctggac	aataatagta	aacagggtgt	840
	ccaacaagat	gtgacttcct	cgaagaacta	cagcaacctc	ccattttcac	cagctatagt	900
	aataattaag	caagagtagc	gaacaacagt	ccttgaagca	ttttactgat	gcattgccac	960
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<210> 243

<211> 995

<212> DNA

40 <213> Arabidopsis thaliana

<400> 243

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	gcagtagtga	aaaactctgg	ttcctgagct	gcgtcaccat	accctttaat	ttttgctaata	600
	actagaagtc	ctagctgaag	agccttctct	ccgtcacta	ggacaagggc	agctgcacca	660
	tcacttatgc	tagacgcatt	tccagctgta	acagtccttc	cattctcttt	gaaactagga	720
55	cggagtgttc	tcaattttgc	agcatcaaac	ttcccaagac	cttcgtcctt	gtcaacaatg	780
	gttgatggcc	tacctcttcc	tccagaaact	tcaaccggga	cgatttccca	tgtgaaggcg	840

5 ccagcttcct gggcagcaat accacgctca aaactctgaa ctgcatagtc atcttgctgc 900
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10 <211> 995

<212> DNA

<213> Arabidopsis thaliana

<400> 244

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 aagcttttca gattcagcag cacaagacca gacgacacaa cagggaactc ttttctttcc 300
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 agatccatca gcacttttgc ctttggattt catgacatcg gaaatagttg tgctctcgaa 780
 tccagattcc tccatacgtg cagggttagt tgattcatag cgtgaacaaa acacagaagg 840
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<211> 994

35 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

40 <222> (1)...(994)

<223> n = A,T,C or G

<400> 245

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 atatacttgt tgggtcccttc actgggactg gtcctgggtg tcagagacgg cctcatagtg 180
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 tcatgtatca cagtgcctt ctcaatccag ggggagatca gaaaggtagg gacccgaaca 660
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agcttgaact taagtgcata gctatggaat ttca 994

10 <210> 246
<211> 994
<212> DNA
<213> Arabidopsis thaliana

15 <400> 246
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cttactcaat cagaggaagt tggtgaggag ctttctattc aacagactaa atacgaccat 180
cggagtctgc cttctttgag aactgccgaa gccgaggctg ctgagtggaa tgagtggag 240
20 agatggggga accaagagtt gcagcataat ggcactcgca ttagaggaat tataacttac 300
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gtggcttcgt ttgttccaaa cttcttgact ggtcttttca ctggagctgg ccttattgga 420
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cgtttctcga tttcctacac gatttcttac atgatttttg gatcttgggc catcaagcta 540
25 gggcacaaca acaattttct cgggcctcta tcaccggacg agccgaaaat gacaggagaa 600
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ctttcataat atcagcatta tcatctatga gatctgggta tctatttaag atcagcattg 840
30 tcattgttgg aataagtttt ctttaccaa cttctaaacc aaatgttcca ctattgaaac 900
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tgtgatgact gtgaataaag aagaaaagag attt 994

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35 <211> 994
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<400> 247
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tcacaaatta aactcacttt ccggggacga agttggtagc gaaggcccat gcattgttgt 180
tgactggatc agccaagtgg tccgcgaggt tctccaacgg tccctttccg gtgacaatgg 240
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45 cettcaactc cgcgaaagcc tcgggggtcag tagcgaggcc caatgggtcg aagctcccac 360
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caacagctcc catgaggata acttgagtag cccaaatggc taagatgctc tgagcgtgga 480
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50 agcctagggc tccgagcatg gccatctgac tgtggataac ttctagctca cggttcctag 660
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55 caggagagga gagagccatt gtcgaggcgg ccattgcggt gagagtgtgg cgcaagtaaa 960
aggctcttta gttaataaga gttctagatc gcga 994

5
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 <211> 994
 <212> DNA
 <213> Arabidopsis thaliana

10
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 <222> (1) ... (994)
 <223> n = A,T,C or G

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 atgggtcatca tcaccatcat tattttattat tattaccatc aacatcatca aggtaacata 180
 20 tccatagaca tcatattgac atgggtcagc gggattcatc gattatgagt ttactcatc 240
 caaaatagtt atcaatttcg tcaaacaaagt cttgacgttc atagaccgnn ntcacatcaa 300
 cgacgtcgtt ttcactcctc tgaagaaacc tcgtaagtcc tttcatgaac gcannnnnnnn 360
 caacacaaga ctccctccaac atcatgaaat cttcatcatt cagaaatgtg gagaacccga 420
 tagtatcctc atcatcaacg ttgtttattac caacgaaatt atcgagtagc attagaggat 480
 25 tgtaaacgga ggaatcagag aacgtggacg aagaacacgt cagattaacg ttaccatcaa 540
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 30 ccgatgataa tccaaaattc ttgttgttct tcttcgcctt gtcattatca agatcatggt 840
 cactagttgt cagattaaca ttttgtttct cccgggaggtt ttctgatttg tcggtaccgg 900
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 gagtgttcca gtagttcttg atctcgttat cgggt 994

35
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 <211> 993
 <212> DNA
 <213> Arabidopsis thaliana

40
 <400> 249
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 caaagagatg acactacatt tgatgcctat gtggtcggta aagatgatgc gcctgggatt 180
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 45 tcacaacttg agcctggatt caaagccctt atacctgact tgtatcgagg aaaggttggt 300
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 gctgttgttg gattctatgg aacccttcc tcagagctcg cagatccagc acaagctaag 540
 50 gcacctattc aggtctattt tggagagctc gacaattttg ttggtttttc tgatgtcacg 600
 gcagcaaaga atctcgaaga gaagctgaaa gcgtctggag tagcacatga agttcacatc 660
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 55 agtcccaaaa cgtttgtgtga tgcccaatca tcttttaata aggacattgc tcttagaact 900

5 ttttaatctga accaaataaaa gaggtttgtt cacttgtgaa tcagtattga gtggaaatgt 960
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<210> 250

<211> 992

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

15 <222> (1)...(992)

<223> n = A,T,C or G

<400> 250

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	gagtgaagac	ttgttgttgt	aacaaagcct	tcattccatat	cgctttttct	ttgacgctgg	180
	tttggtttgg	tgccaaattc	taaaacgcca	tccgcccagc	aagcctactc	tctgagattc	240
	gtctgtctat	cgctgcattt	atcgagttca	tctggctggg	ttcatcgtgc	actttgtatt	300
	ttggtaagga	cattcttctt	tcctccatag	acatcgcttc	atcatcccat	acaagataga	360
25	cctcattagg	ctgattgcta	ggagctttgt	ttgcaattac	aggaggtgga	ccaattgaag	420
	gacngctagt	gtttgggcca	nnggcataag	aatgagcatt	agtcccacct	ggaatagaat	480
	tgtaggcgg	ataagcatct	gctgatcccta	aagcatctgc	atgagatggg	tgctgagccc	540
	caccaacagg	cagaggagca	gaaaatggtg	gagcttgaga	aggaatgctg	ttattcacia	600
	cagggaaacag	aggttgagga	actggcattg	caggtgatga	tgtaggaatt	ccaggaggag	660
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	cagaaagagc	tggattttga	ggataccatt	ggtgcggacg	aggaggtggc	atttgccata	840
	caggagcagg	atgacgcata	ggaggacccg	gataatacat	tggtcgtgca	ggtacagcac	900
	cagggtacttg	ttgaggcgga	tataccattc	catatggtct	aggaactaca	ccaccaagag	960
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<210> 251

<211> 992

<212> DNA

40 <213> Arabidopsis thaliana

<220>

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45 <223> n = A,T,C or G

<400> 251

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50	agcagagcac	actgaatcaa	cacaatcacg	aaattgaagc	ttgagctgag	cgttgatgca	180
	tagttatcag	gaccagcaga	atctggacaa	gctggggaag	ctgtggtgaa	gatggtttgg	240
	ttggagtaac	cagcatagac	gcaatcacga	ggttgctctg	aagaggcggt	aagcaaagct	300
	ccatcacatt	gtgaaaatgg	tgggcagggt	tgccngttcg	aaggcttaat	ctcagatgat	360
	gattgacagc	ttaaagtcca	attcttcaaa	gcgtcacaa	tacacttgac	gcaattgttt	420
55	gcagtgaaga	cgtatgagtt	gttagacaga	agcagaggag	catccaacga	gtccttcctc	480
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 15 <211> 991
 <212> DNA
 <213> Arabidopsis thaliana

 <220>
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 <223> n = A,T,C or G

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 gactacactg atgaagcagc aaagctcggg gtttcgtatt tttcagatct tgatgatcta 180
 tttgaagagc atnntgaagt tattattctc tgtacgtcaa tcctttcgac tgaaaaagtt 240
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 30 gtaaaagagt tcccaggagg tttattttct caaactctcc cacaagattt tgatattttg 360
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 tgcagacaag attttgagtt tggaaattgt t 991

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 45 <212> DNA
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 50 <222> (1) ... (991)
 <223> n = A,T,C or G

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 55 tagccgacgt agcatggacc gcggtggaaa cttaccatca ccaccaccac caccaagacg 120
 aaaatcacga gtcaacgaat ccaatttctg atccacgaga tcgtgaatta gaagctcttc 180

5 gtcaagagaa tcgtcgtctc aggactttgc ttgaatcgaa tcttaaactc tttgagactc 240
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 aagttcttat agagatggat catcaagagc caagttggtg ggttttagtt actgatgata 480
 10 tggttcctag taatgtcgag gaacaaagcg cgatcgataa cgaacattac attgttgtga 540
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 15 ctgctaaggg tgttcatgcg accagcaagg ttgttcttag ggctcttga aagttataag 840
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 <223> n = A,T,C or G

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 35 aaatacgaga ccaatcctgc tttgtatggt gagctcgcca aagggtcaaag cccaaagtac 300
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 40 ggaaacaact ctactgactt catagaggat tgggtcaaaa tctgtttacc agcaaagtca 600
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 <213> Arabidopsis thaliana

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10 gctgggtttca tcattcctga agctttaaac aaatatggcg ctaactgtgg ccctgaagct 480
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aaaaaacttc catctgaaaa aaaaaaaaaa a 991

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<210> 256
<211> 990
<212> DNA
<213> Arabidopsis thaliana

25
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gttctattca tcagaatcgg ataactcgag gggacaagag ccatcatcaa cattagcata 180
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<211> 990
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<213> Arabidopsis thaliana

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<400> 257
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55 gactcactta accggtgttt tgcaatcctg cagcaatacc cttcatggtt aagataagtg 300
tgtcctcaag tccaggcgcy tattcactcg tggggttaag cttgacgagc tcttgtgctg 360

5 atttgcttga ttgcatgac tctttagaaa tgtgtggtcg cagagtcaca ttgtagtttg 420
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15 cttggaaaac gacagatcgc ggacgcgtgg 990

<210> 258

<211> 989

<212> DNA

20 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(989)

25 <223> n = A,T,C or G

<400> 258

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45

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<212> DNA

<213> Arabidopsis thaliana

50

<400> 259

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5 tgggttaaga aaggaggtgc tttcactggt gaagtgagtg cggagatgct tgtgaacttg 360
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 15 ccagtcgcaa ctctgaaaaa atgaataagt tggattatg atatgatata ttttgcttca 960
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<210> 260

<211> 988

20 <212> DNA

<213> Arabidopsis thaliana

<220>

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25 <222> (1)...(988)

<223> n = A,T,C or G

<400> 260

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 aacacctcct cctaagaagg acaatgcagc accatgtgga ctccnggagt atttcaggc 360
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<210> 261

<211> 987

<212> DNA

50 <213> Arabidopsis thaliana

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55 <223> n = A,T,C or G

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 tttcttagcc atagcatcgg attggatcct tgcaaccttt ctcagctgat tgtcttaaac 240
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<210> 262
 25 <211> 986
 <212> DNA
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<220>
 30 <221> misc_feature
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 <223> n = A,T,C or G

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 45 ctgacttttg cagcagcttg tgcacggcga ggcataacgg ttctaataga caacgatctg 660
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<210> 263
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 55 <212> DNA
 <213> Arabidopsis thaliana

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<220>
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 <223> n = A,T,C or G

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 15 aataagtggg gattatttct gaagagggtc gggttagtat tcagaggact cggagctgag 240
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30

<210> 264
 <211> 986
 <212> DNA
 <213> Arabidopsis thaliana

35

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 ctataggtgt catgtaatga tgtactgtcg ttattttaaa gaaaatttgg caccttttgt 960
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55

<210> 265
 <211> 985
 <212> DNA

5 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(985)

10 <223> n = A,T,C or G

<400> 265

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15 taaccatagg atcaaagatg gagggagaaa ccgcagccaa agcagcggca agttcctcct      180
catccccgag ccggtacgag tctcaaaaga ggcgagactg gaacactttc cttcagtatc      240
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tcggacaacc taaccacccg tctcagtgca cttgccctct caagcaagct tggggaagtc      420
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30

<210> 266

<211> 984

<212> DNA

<213> Arabidopsis thaliana

35

<220>

<221> misc_feature

<222> (1)...(984)

<223> n = A,T,C or G

40

<400> 266

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55 ttaggggtcca tcatgaagcc aaacaaacca ttgagctaga atggaataat gaatgcgagg      840
gaactggctc taacctcata tcaactcggtg taagatatca accagatgga agctatctca      900
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<210> 267

<211> 983

10 <212> DNA

<213> Arabidopsis thaliana

<400> 267

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	aacatgaaca	tgtcaaagtt	tttctgtcca	actaacccaa	aactcacaac	acagaatgat	180
	ctagcaacca	aacaatacat	tgaagaacc	tgagctctgc	tccttctgat	gcaatctcga	240
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	cagggtcagt	atgtgtgact	cctgatgtca	atttcttaac	actgtcttta	gcctctgcaa	360
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	gcatttactg	ttagaaacta	aagctgggaa	actacaacag	acaagctacg	tgagcctgag	600
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	gatacctaca	aactaagttc	taatcaaaga	agtttgagct	ttctaaaaag	ttacaatcag	840
	aatttctcta	atctgccatc	agatcccaac	aaccagctat	tctactaaac	caagttccac	900
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<210> 268

<211> 982

<212> DNA

35 <213> Arabidopsis thaliana

<220>

<221> misc_feature

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40 <223> n = A,T,C or G

<400> 268

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	ccatgttcag	ctgtcgtcgc	ttcaggaaca	atcgcatcag	cttcttggtt	ttccccagct	300
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	tcacttttgt	tacatgtgat	actattttca	caaacattat	ttttcttgag	tccaaggcat	420
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	ataatgtttt	tttttttcat	tttagactta	caacacgaag	actcatgttt	tttactcaga	600
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55	ctaagtcttc	ctctcttgat	acttggcttc	aaatagttca	accatcttag	tctacaactc	780
	tttctgcata	gatttagccc	agctctcaaa	ggaacttgat	gccatttgcc	ttctccatac	840

5 ttatcaatac atagcctcaa gagactatct tcttcagcag tccatgcacc tttcctcaac 900
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 10 <211> 982
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 <213> Arabidopsis thaliana

<220>
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 <223> n = A,T,C or G

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 acagtggatg actttattga tgtcattgaa ggcaaccgca agtatattaa gtgtgtttat 300
 25 gtctacaaca aaatagatgt tgttggaatt gatgatgtgg atagactatc ccggcagcca 360
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 gatgagcctt ttgtcctctc atctgatcga ggtggctgca cagtgggaaga cttctgtaac 540
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 30 aggcacaatc cacagaattg tggctcttct caacatcttg aannccaaga tgttgttcag 660
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 gcccctgcta gaattgcaga cagagagaaa aaagctcctc ttaagcaata agcttttagc 780
 tgataagtca tctccataca tccatctcca ccatcatagt cgtggatggt ttcacctgag 840
 taagatttca tatgttgtat ctgaatccgt tttgttgttn nctctcacia tataagtttt 900
 35 ggaacaattt tacttttttg agatacaaat ggaagtacga gttcctatatt accctttttg 960
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 40 <212> DNA
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<220>
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 45 <222> (1)...(982)
 <223> n = A,T,C or G

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 cgattctcag ctcaatctta tcttttcctt tgttgtgctg cttttcactc tcttctgcgc 180
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 aatcaggaaa gagagtttat aaggagacat cataagcatg agcttggtga taatcagtgt 360
 55 agctctacgc ttgttaaaca tatcaacgct cctgttcata ttgtgtggtc acttggtgaga 420
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5 atggagattg gtacagtaag agaagttgat gtgaaatctg gactaccagc aactagaagc 540
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aaggatgaga cttgttactt tgttgannnn nnnanacanat gcaatcttaa atcttttagct 780
10 gatatctctg aacgtcttgc ggttcaagac acgacagaat cgagagtcta aagatcaaag 840
gagtaagaaa ctattgaatc agagagattt tggttgccat ggatgaagct ctcaaaggga 900
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15 <210> 271
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<212> DNA
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20 <220>
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<223> n = A,T,C or G

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40 gtcgggcttc tgagaacact tgaggcggtg gaggagctcc gacatgagat ccaccgtctg 900
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45 <210> 272
<211> 981
<212> DNA
<213> Arabidopsis thaliana

50 <400> 272
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aaagaacctt cataaacact ccaaaagctt cattatctac acctattcat attatcggtta 180
tagtccatag aaatcttcca aattaaagt ttaataataa aaaaattaca caaaccgatt 240
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55 gaataagctc cctctggtcg gctaacgagc tctgaatggc tgcttgctc cacaatccgc 360
ccgtcttgaa tcacaccaat gcaatcaaca cctcttatgg tggacaagcg gtgagcaact 420

5 accacggtgg tccgacctct catgagcctc tctaacgcct cttgcagcac gcattctgat 480
tctgcatcta gtgcgctagt tgcttcgtct agaagcaaca ctgtaggggt cttgagcaca 540
gctcttgcta tgcgcatcct ctgtttctgt ccacctgata actgcactcc tctttcgctt 600
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<223> n = A,T,C or G
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accttctttc tgtccaaatc cagagccagg tactgtggag attcctgtgg cttctaagag 300
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<211> 980
<212> DNA
<213> Arabidopsis thaliana
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<223> n = A,T,C or G
55
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<211> 979

25 <212> DNA

<213> Arabidopsis thaliana

<400> 275

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	caacgaaacc	ggaccaaact	ccaaacaaaa	caagaaagat	cgaggcaaag	taaccaaaaa	180
	cagaaacatg	aatcaagaat	catcacttgt	ttccttagaa	atcagcagaa	gcaagaggaa	240
	catgttcgga	agaacccatg	aagacatttc	cgtagataag	tccggcaagt	ccaccaccga	300
	tgagtgggtc	aaccagtag	acccagtgc	cagagaagtc	tccggcagca	acagctggtc	360
35	caaaggaacg	tgtgggttc	atggatccac	cggagaatgg	accggcgccg	aggatgttgg	420
	caccaacgat	aagaccaatg	gcgagaggag	cgatggttcc	gagagaaccc	ttcttgggat	480
	cagcggcggt	ggcgtagaca	gtgtagacca	aagcgaaggt	gatgatgatc	tccatcacta	540
	ctccttctat	cgatcctagt	ccagccgcaa	cgctgtgggt	tggaaccgcc	aatccaccgg	600
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<210> 276

<211> 977

<212> DNA

50 <213> Arabidopsis thaliana

<220>

<221> misc_feature

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55 <223> n = A,T,C or G

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 15 tgtggatagt ttatttatgt acagttctat acgccacttg attcagtcgc gtcaggcttc 600
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<210> 277

25 <211> 976

<212> DNA

<213> Arabidopsis thaliana

<220>

30 <221> misc_feature

<222> (1) ... (976)

<223> n = A,T,C or G

<400> 277

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 tttgagccgt caccgtttct tagacttaac agccacaaca cttttataaa gcttcacgcg 180
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<210> 278

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55 <212> DNA

<213> Arabidopsis thaliana

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<220>
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<210> 279
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 <212> DNA
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<220>
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 <223> n = A,T,C or G

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<211> 974

10 <212> DNA

<213> Arabidopsis thaliana

<400> 280

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	aagagcaagg	ttgaggatgg	catctttgga	acgtctgggtg	ggattgggtt	cacaaaggcg	300
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	cctcccggca	aaaacgtccg	atctgccctc	ggtctcaaag	aacaagggtc	attgtttggg	600
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25	ctgataggag	agattattac	cgggaaagga	gcattagctc	aactcaacat	tgagaccggt	720
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	gccattaatc	ctggtaatgg	aaaattcatc	accgatgatg	gtgaagaaag	ctaaattatc	840
	atgtacttaa	atttagtaga	gagtgtgtga	ccttctcttc	atgttgagac	aaaaggaaat	900
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<210> 281

<211> 974

<212> DNA

35 <213> Arabidopsis thaliana

<400> 281

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40	caaaagaatt	tagcaaacag	aaccacacaa	acataaagt	cggtaaaaga	gagaaaaaca	180
	aaacacaatc	aacaatcata	tgatcaagtt	ctaaactaag	aaacactcag	acgaaagatg	240
	cggcttttgt	tactcacaag	ctaaaggctt	aacctgaac	ctgtagataa	gcattttctt	300
	ggtcgaagtc	gggttatcaa	cagttagcaa	aatcctgcc	acttctccaa	ctttgaagct	360
	atgagacacc	accagttcat	ttttcgcagt	catcttcctc	ggtttctgaa	tgatcactgt	420
45	atacccttct	ttgttctccg	gcacaaactc	cgctccatac	gaaacctccc	atcccactac	480
	tcttatctcc	cacacgattg	tacatttctc	gtaaacaata	atctcgacgg	tttgtttagt	540
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	gcaattatcc	acacttagtc	caccatactg	aaccgggaca	tggtcgggtg	atatgtactt	660
	gagaaggggt	tctgcagatc	ttgaaggacc	tgcgaaaact	agtttgctct	ttgacctttg	720
50	tgacataaaa	ggactaataa	ttctatagaa	cgcaaggtag	caccatggaa	cattgatgaa	780
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	agctaacccta	agctcagctc	taccaggtcc	tggagaattc	ttaagatcat	ttacttgaca	900
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5 <211> 973
 <212> DNA
 <213> Arabidopsis thaliana

<400> 282
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 caagccaagt acttctccag cttctctact tcctctgtgc ttccaatgta tagaggaacc 180
 ctctgatgta tctcagtcgg ttggatatct agtactctcg aatgtccatc agaacccttc 240
 cctccagctt gttcaacaat gaaactcatt ggtgcacact catacaacag cctaagtttt 300
 15 ccatTTTTTgc tctttgcgtc acgagggtac ccgtaaattcc caccatacaa taaagtcctg 360
 tgaaaatctc caaccaaact tccaatgtac cttgcggagt aaggcttccc agttggacca 420
 gggtccttaa gatcatcaat gtacttcttt agtttatcgt cccacatctg gtaattccct 480
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 ctctctcca ccgcaactgg cagtcctctc tcctccgagg ctatgattcc cgttcttcca 900
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<210> 283
 <211> 972
 30 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 <223> n = A,T,C or G

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 gttgataaga cttctacttc ctgacgatat tgagatcgat gtgtacatac gcaagcgann 180
 nacaaatact aagaagaaag ccgatacaag catgaatggt tccgctagca tgtatattgg 240
 tttgaatgta tagtacacct ggaagggtac gttgtgagt ggaactacgt tatctttttg 300
 caacacacac acggttcttc ccacaatgtc aaggatagag tatttgacct gcaactcttg 360
 45 attgactgta aagggcaaaa cagcagaagg gtcctttgat ccttcaggaa gcacgacttt 420
 gatagtcaac ttgttaacaa tagtttcgac gagcgggcac ccaaaggtaa agttcaagta 480
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 agtcaacctc taattttctg taatctgaag gctacccag tgtgaaatct caatttcacg 840
 cacaagctcc tcaacaacag caaatggact gttattctcg aagtgaatga tgacaggtgt 900
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 55 agcaggttca at 972

5 <210> 284
 <211> 972
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 284
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 aaccaccaa gttttacatg aaacgaaaca ttgaacttct taagcataac agagacgaga 180
 tttagaaacc accacgaaga cgcaggacca agtgaagagt agactccttc tggatgttgt 240
 15 agtcggccaa agtacgtcca tcttcaagct gctttccagc gaagatgaga cgctgctggt 300
 ccggaggaa accttccttg tcttggatct tggccttgac gttgtcaatg gtgtcggagc 360
 tttccacttc aagggtgatg gtctttccgg tcaaagtctt gacgaagatc tgcatacctc 420
 cacgcagacg caacaccaag tgaaggggtcg actccttctg gatgttgtaa tccgccaaag 480
 tacgaccatc ctccaattgt tttccggcaa agatcaacct ctgctggtcc ggagggattc 540
 20 cttccttata ctggatcttg gccttcacgt tgtcaatggt gtcagagctc tctacctcca 600
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 caagtgtctt tccggcgaag atcaatctct gctgggtccg tgggataccc tctttgtcct 780
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<210> 285
 30 <211> 971
 <212> DNA
 <213> Arabidopsis thaliana

<400> 285
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 tcacctgctg tcggtttcag attggttttc aaaaccaata gaagaagata agttgagaca 180
 ttgtgctctt ccttctctcc actctttcct cgcactctct tggacagacc ctttttcgga 240
 tctggttctt tgtgtaggaa aggctgtgaa cccctggaac ctccacctt acccgaacca 300
 40 cggctagagc ctgtcctcat cgatccttca ttcacgagag aagatccatg tgctgcaaatt 360
 ctcttcgcca ttctcggacg gctgcgcaa ccactctctg ttttggcatc ctgaagagat 420
 cctaggggtt tccccagtgg acctagactc ttcagttggc ccaattcatc caaaaaggcc 480
 caagccatt tgctggttta ataactctaa agctttctcc ctccagacca ttgcctcacc 540
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 45 cctgactata gcaccatagt ctcccgaatc attggtatcg tgttactatg ggtaatgcag 660
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 aacactatct atctttcttt ggtattgggg aatgcctctt cttgtcttgt tgtaattttt 900
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<210> 286
 <211> 971
 55 <212> DNA
 <213> Arabidopsis thaliana

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<220>
 <221> misc_feature
 <222> (1)...(971)
 <223> n = A,T,C or G

10

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 aatcaatcaa agatctggtg aacgatgcga atttcgactg ctccagcact gggttctcac 120
 tccaagctat ggattcgagt cacgttgctc tgggtgtctct cttgctaaga tccgaaggct 180
 15 tcgaacacta cagatgcgac aggaatctct ccatggggat gaatctcggc aacatgtcga 240
 agatgctcaa atgcgcgga aatgatgaca tcatcaccat caaggctgat gacggcggcg 300
 acaccgttac cttcatgttt gagagcccca cgcaagacaa gattgctgat ttgagatga 360
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 tgaggatgcc ttccaatgag ttttccagga tttgcaaaga tctcagtagc attggtgaca 480
 20 cagttgtgat ctctgtgact aaannnnnncg tgaagttttc tactgccggt gacattggaa 540
 ccgctaacat tgtgctcagg cagaacacaa ctgtagacaa gccggaagat gcaattgtga 600
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 aggcaactcc attgtcagac acagtgcaca tcagcttata gtcggagttg ccagtggttg 720
 tggagtataa ggttgctgag atgggttaca ttcgttacta cttggctcct aagattgaag 780
 25 aagaagaaga cactaatccc taagaccctt tttatatcca caatttctct tcattctaaa 840
 atgttgaaga tttattgaca atgttggtgt ttttttttgg tgagattcct ttgtatcccc 900
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 aaaaaaaaaa a 971

30

<210> 287
 <211> 971
 <212> DNA
 <213> Arabidopsis thaliana

35

<220>
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 <222> (1)...(971)
 <223> n = A,T,C or G

40

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 aagtttctga ggactctaac aacccttgta tcgcgactgg atatgctggt acctacaaat 180
 atggaggaaa agcgttttaa gctgcagctt ctccatccgg tgcaagtcta gatgagtgcc 240
 45 ggcgagtagc tattaacgca ctcaaagtca ataattcatt gtgtacacac atgaaatgca 300
 cttttggttg agtatggaat ggtggaggcg gtggtggcca gaagaaaatg tttgttgcatt 360
 catTTTTctt cgatcgagcc gcagnggctg gttttgttga cccaaaccaa cctgtggctg 420
 aggttcgacc acttgacttt gagaaagcgg cnaacaaagc ttgtaacatg agaatggaag 480
 aagggaaatc gaagttccca cgtgtggagg aagataatct tncntacttg tgcttgatc 540
 50 ttgtttacca atatactctt ctgcgtgatg gattcggatt gaagccatca cagacaataa 600
 cgttagtga gaaggtgaaa tacggagatt acgcgtgga agctgcgtgg ccactaggaa 660
 gcgccataga agcagtatcc tcaccatgag gaaggcaatt ttgggtatTT gcaactaaacc 720
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 tttttatcgt caacatcttc cttactatca atttttgtta caataatcat ctagagaaaa 840
 55 gagtttcaat tottaatat cctataattt tatttttctt gtaatctaaa ctgcttaccg 900

5 catacgtaac ctctgtttct ttcttataaa atattttcct tgcgttaaaa aaaaaaaaaa 960
 aaaaaaaaaa g 971

<210> 288

<211> 970

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

15 <222> (1)...(970)

<223> n = A,T,C or G

<400> 288

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	cgatgagtga	acagataaca	ttgatttact	atatgaaaat	aagtgatgtg	attttttaac	180
	tccaattaaa	aaaaaaagaa	gtctttttaa	gcctagaaga	attcaaacat	tcgagaagag	240
	taagcaaaaa	ggagaaacgg	tgacagtaaa	acatgaaaca	aatcgagcag	gtcttaaac	300
	acaagaaatc	aagtcgactc	cggagagaaa	gcttcaatcc	cctcaccaaa	actatctggt	360
25	cgagataacc	tcaagctttg	ctagcaatgt	tggttgaaag	ccaatccaga	ccttcataga	420
	gcccttcacc	gctagtgtcg	catgtgcttt	ggatgtacca	ggggcggtgc	cggannnnnn	480
	nnaggccaan	nnnnncagta	atctcagcag	cattcatagc	gtttggaaga	tcctgcttgt	540
	tggaacacac	aagcaatact	gcaccccgaa	gctcatcttc	attcaacatc	ctgtgaagtt	600
	catctctggc	ttcaacaaca	cggctctctgt	cattgctatc	aacaacaaat	atcagacctt	660
30	gagtgttttg	gaagtagtgt	ctccacaagg	gacggatctt	gtcctgacct	ccgacatccc	720
	aaaccgtgaa	gctgatgttc	ttgtactcaa	cctgtctccac	attaaaccgg	atggtgggaa	780
	tggtggtgac	aatctcacca	agcttgagct	tgtacaaaat	ggtggtctta	ccagcagcat	840
	caagaccaac	cataaggatt	cgcctctcct	tcttggaaca	aagccgggta	aaaagctttg	900
	caaatgaaag	ccccattttc	cttttaactg	ttgatccttt	ggagaattga	aagggatcta	960
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<210> 289

<211> 970

<212> DNA

40 <213> Arabidopsis thaliana

<220>

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<222> (1)...(970)

45 <223> n = A,T,C or G

<400> 289

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50	ccaccggtca	aagcaaataa	ctctctgtca	atgacaatgg	agaaacaata	taaagatttg	180
	aggagttaga	acgatagtgt	caagtcgttt	aaggaggaga	ggactcctca	tggaccagtt	240
	cctgattatc	aaaatatgca	gcacaacaga	aacaatcaaa	ctggtgtgag	aatttcacac	300
	tcaggtccat	tgatgagcaa	ccggaacatg	gctaagtcaa	caatgcatgt	gaaggagaat	360
	gcacttctca	gataccctcc	agctagagta	aaccggaaga	tggtatcagg	ctcagctctc	420
55	tccaaaacat	tattagaacg	gcaagatcaa	ccagtcacga	accaaagaag	aagagatcgg	480
	cgagcataca	atagagctga	tactatggat	agtagacata	tgacagcacc	aattgaccca	540

5	tcttgggtata atcctagtga tagcaagatt tacatgtcag gaccattggt ggctcagcca	600
	agcagagtgg accagatgct tgaagaacat gacagacagc ttcannaatt caatanannn	660
	ncactcnaga caccacaagg ctgaaatcat tggaagagcc aaattattga gcgttctaaa	720
	aagccgaatc agttgagtca gatttgtcac tataatctat tggtttcata aattgagttg	780
	atgtgatcgg cttaaaggca taaaccacta ctgttcgtat agagttcgtc gtgtgtacat	840
10	atatacaaaa tccctttgaa ttcattattc cttctaaaat tgattgttgt tccgttgtaa	900
	ttatanntt taattgtaat atttggttgc ctcagaatca caatctctct ttgcagctta	960
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<210> 290

15 <211> 969

<212> DNA

<213> Arabidopsis thaliana

<400> 290

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	tgatccaaga gggtaaagat ttggtttaatt acgctctcat caatgccgtc gccattcgaa	180
	aaatcctcaa gaaatatgac aagattcatg agtctaggca aggacaagcg ttttaagactc	240
	aggtccagaa aatgcgaata gaaatccttc agtcaccgtg gctctgagag cttatggcgt	300
25	ttcacatcaa tctgaaagaa tctaagaagg aatctggagc tactataact tctcctcctc	360
	ctcctgttca tgcattgttt gatggttgag ctttgacttt cgacgatggg aagcctttac	420
	tttctgcca gctctctgat tccgtcaaaag ttgacattga cttgacttgt tcaatatgcc	480
	tggacacggg gtttgatcca atatctctaa cctgcgggtc catatatgtc tacatgtgtg	540
	cttgctctgc tgcacagta aacgtagttg atggcttgaa aaccgcagaa gcaactgaaa	600
30	aatgcccgtc ttgccgtgag gatgggggtt ataaagggtg tgttcacttg gatgagctca	660
	atattttact taagcgaagc tgcagagact attgggaaga aaggcgtaaa acagagagag	720
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	tatgatatag tttgatttgt ggcttcttaa gtgagattct tgattttgat aataagatag	840
	taaaaataat cttaattttg atttgctttc ctctgtgagt gtgtttcctt gcacagagag	900
35	tgacgatttc tttgtgaaaa aactgaaaac tcttaagcat taaatatggt ttataagttt	960
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<210> 291

<211> 968

40 <212> DNA

<213> Arabidopsis thaliana

<400> 291

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	tccagcatca agtctggtga acgtgcgctc ttgcatgttt gctgggaatt tagcatatag	180
	gagagatgga aactcttctt tttcccaatg ttccatctat agcgggaattg ttagatgacg	240
	ctgaagttgt tggatttgat gaaacaaagg aggaacgttt tttctttaag atcatttgct	300
	gattcttggt tctttacctg aacactccac aaccaagctt ttatcccaag ctctttgctt	360
50	atagctgact tgaggttgg attgtacag gaaaagctcg cagtgatatg actatggagg	420
	aaaggttttg tgcgcacac agaaggaaaa tggatggggc tctctgttta aggaggataa	480
	attggaggag gccaatacga aatggttagg aatctctctt tctttctaac aattacggtc	540
	aaagtttttg ttttcaaggc atactcagcg actctgcccg aggcctctgc atctcctttc	600
	ggctctaaaa caaagagcct taactgggtg atagtgttat cgcaatggtt ggtttgctt	660
55	ttcatgaaga tttggggaag ctgagatggt gccaggagaa gtaagcacia accaatagtt	720
	gagagatata aacataaaca gcaaaagaga gactcataag catcaggtcc ttgacgtctc	780

5	ctttcttctt ctctggcttc agattcttcc caatcttccc agcctctgaa atcatccttc	840
	tcaatgttct ctggatcact ccttcattct cttctggtta tttctgcttc cgacaagaca	900
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10 <210> 292
 <211> 968
 <212> DNA
 <213> Arabidopsis thaliana

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	tgacacatca actgcagaat caggttctga agctgaagat attgttgtgt ctccaaaagc	180
	agtaaaagagt tattcccatc tccgcttgac ccctgttcgt gaagaggcaa aggttggttc	240
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	caaagctgtt gacgccacct ggaagggtta acccaccgcc atcaaccggg ctcccttctaa	360
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	agtaactttc atggcctttg tgatggcgat tctcacattc ttccgtacag tatcaaaccg	480
	tggtgtgacc aagcagcttc caccgcctcc tagccaaccg caaattgaag gaagcgctgc	540
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	aattggagcg ctccagtcaa agccatctga gatgccttat gagaaagagg aactgcttaa	660
	tgcagctgtc tgccgtgtag acgcccttga agctgagctc atagccacta agaaggctct	720
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	tcagcaccag aagaagaata agaggaagca aatgttctgt ttctagaaga tgaagaagaa	840
30	gaatcaaatg tttgtttcta gaagaagaag aagaagaaga ggcattctctg ctttctctct	900
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35 <210> 293
 <211> 968
 <212> DNA
 <213> Arabidopsis thaliana

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	aggatacaac agaaagaaag tactgagaaa ttgggcaatg agaaagccgc ttattttaatc	180
	ttagcattat tactgtgact gaagcaaaac catattttcc ttttagaaat ttctcactga	240
	accttctcgg aagctggcct cttggtgatt tcagccaccc actcattgac acgtggacgc	300
45	tcggtgaaga gcttcttggg gggagttccg agcaggatt gaatcgcggg aatgtggtga	360
	agatcagtc aagtgaaggt ttcaccagcc aaataactga actccttgag cctagcctcg	420
	tagacatcaa ggaccttgcc taacttagcc tcctcttctg caacaacggc ttctgtctgtg	480
	gtcaagccgt agatggactt gaatatttgt tcaaaagcaa gctttgaagc cactgggtcg	540
	aactggtgat ctctacttgg cattccaatg gccatgattg cgtactgaga tatgttcttg	600
50	gagtcgggtt ggagaagggt ggttccttgg ttttcatatc ggtgagctat gtactgagta	660
	atcgctcttg attcgaagag cttgaggtct ccatcttcaa aggtctggaac ctgacaaaaa	720
	gggttgccgg agaggaaagg ctccctcttg tgctcaccgt ctttgagttc gacatgaacg	780
	agctcaaagt cgagggtttt ctctgtggag gcgatgagga ctctcctggt ggcaatggaa	840
	gctgggtgtc cgaaaacttt gatacctgcc attgatttgg ttactaagaa actctttgaa	900
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<212> DNA
<213> Arabidopsis thaliana

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15 gaagatcctg ctccggcttc ctcttcttca aaagattctc cggcagctgc cgctgctccg 240
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gtcagctaac ctaaaccgtc ttaaattcca ttagcttgta tatatatacg cataagccaa 360
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20 catgtttatg tgtgtgtgac ttgtaaccac atattttgtt cataatcaat cgtttcttat 540
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aagaacggtg gatcagttgt tgccgttgat caggtaacgc atttagtctc caatcaacga 660
tctaacggtc gtatgaatat ctttcacat gccggttttg tttagtttct tgaccagggg 720
tataaattgt gcaggaccct aagactcgat acccggttggt ggtccgggtc gcaaaagtca 780
25 attacgcaa catatcgacc aacaactatg cattggatga ggtcgaagaa gttgcagctt 840
aaatgggaga attcaaaaac tctgtgtatt ctataccggt ttatccgttt gtaacttgac 900
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aaaaaag 967

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<212> DNA
<213> Arabidopsis thaliana

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<223> n = A,T,C or G

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45 aatcttgga gttgtactgt gcttgagact gctggtaag gagctcttgc ttctctctat 300
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55 tcccaaagt ggctattctt attcatgaaa tgtgcatcat ggaccgattg tctccccacg 900

5 ggaaaaattc gcttatcaat aaatggaata taagttcact taaaaaaaaa aaaaaaaaaa 960
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<210> 296

<211> 967

10 <212> DNA

<213> Arabidopsis thaliana

<400> 296

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	ctctcttcag	cttcttgtgt	tgtgacgcac	actcgtcgca	gtcttgagat	atggccgccc	180
	cagttttccac	cgtcgggtgc	atcaacagag	ctccgttgag	cttgaacggg	tcaggatcag	240
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	tcgcacagag	caacaagaag	agcaacggat	cattcaaggt	gttggctgtg	aaagaagaca	360
20	aacaaaccga	tggagacaga	tggagaggtc	ttgcctacga	cacttctgat	gatcaacaag	420
	acatcaccag	aggcaagggt	atggttgact	ctgtcttcca	agctcctatg	ggaaccggaa	480
	ctcaccacgc	tgtccttagc	tcatacgaat	acgttagcca	aggccttagg	cagtacaact	540
	tggacaacat	gatggatggg	ttttacattg	ctcctgcttt	catggacaag	cttggtgttc	600
	acatcaccaa	gaacttcttg	actctgccta	acatcaaggt	tccacttatt	ttgggtatat	660
25	ggggaggcaa	aggtcaaggt	aaatccttcc	agtgtgagct	tgatcatggc	aagatgggta	720
	tcaacccaat	catgatgagt	gctggagagc	ttgagagtgg	aaacgcagga	gaaccgcgaa	780
	agcttatccg	tcagagggtac	cgtgaggcag	ctgacttgat	caagaaggga	aagatgtgtt	840
	gtctcttcat	caacgatctt	gacgctgggt	cgggtcgat	gggtgggtact	actcagtaca	900
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<210> 297

<211> 965

<212> DNA

35 <213> Arabidopsis thaliana

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<222> (1)...(965)

40 <223> n = A,T,C or G

<400> 297

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45	agaggaagac	gcagcagtgg	tagcagtcgt	aatcgcgagc	gcagaagctg	cgatcctctg	180
	tatcaatact	tgttcgacac	ctgtgggtcat	tggccttttc	ctacaactcc	ttcgccggaa	240
	aacccttttc	taccattcca	accaccgcgt	ccaccaccac	gtccgagacc	gcgtccaagg	300
	ccatccccac	gtctaccgcc	acctttgggt	ccatcacccc	caccaccact	gcacccaagg	360
	cgtccccat	gcccaccacc	gcttatggcg	tctccaccgc	ctttgggttc	atcaccacca	420
50	ccacctctct	cttcaccnnc	cgttctctca	cctctctctc	cctctccgcc	accatttttc	480
	ttcttccctt	caccgcccc	gncgggtgata	gtgtttccgc	cccctttggg	gccgtctcct	540
	ccgcccgcac	taccagggtg	tgatcagacg	acacaacctc	cgcggttatg	gctacctccg	600
	ccaccatttg	gagacgaaac	gccgccagtg	ttctctcttc	caccgcccgt	ggatgagttt	660
	ccacctatgc	caccaataac	atgggttgct	cctccggatg	ttcccgccca	aacctcgtcc	720
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	tcattttctg	attttctctt	tctttgtttc	tgtttagcag	ctgggtgtacg	attactaaac	840

5 tacgtagatt taacgaaaca attttgtttg tttgtaaaca acgtagcaat ttttttttc 900
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<212> DNA

<213> Arabidopsis thaliana

<220>

15 <221> misc_feature

<222> (1)...(965)

<223> n = A,T,C or G

<400> 298

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 catggccacg gtgactcgtc ttctctgtcc gattccgacg acgataagaa atctacatcg 180
 tcttcgctcg cgtccttcaa gtcaaagatt taccgacttt tcggaaggga gaaacctgtt 240
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<210> 299

<211> 965

40 <212> DNA

<213> Arabidopsis thaliana

<220>

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45 <222> (1)...(965)

<223> n = A,T,C or G

<400> 299

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 acatgtctca tgactacttt gatgctgagt tgaccagct tggctggaaa caggtagata 180
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 gttcaatggg catcgctgat agaagtatgt tgggatcgga cagttcgggtg actgattatc 780
 10 caggaaagat tccaaagggg attgatcttc caagtgatgc tgtttagat gataacaaca 840
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 <223> n = A,T,C or G

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 tcgagttggg ggtatggcta aaggctccgg gatgatccat cccaatatgg caactatgtt 180
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 30 tgcagttaac cgaagtttca accagatcac tgtatatgga gacacgagta ctaacgacac 300
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 gggatgcatg cttagctatg actatgtcaa gatcaacgct gactacacct catagaactg 840
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<220>
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 <223> n = A,T,C or G

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5 acaacagcaa caacaaacac gttcaaagca aaactcagag aataaactaa tcccagtttt 180
 gtcctacca aaagaatcta cacatggact tagattctcc agtctcaatg tgcttcttct 240
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 25 aaa 963

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 30 <213> Arabidopsis thaliana

<220>
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 <222> (1)...(962)
 35 <223> n = A,T,C or G

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<400> 305

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15	ctttattctc	tggcattttc	gccagtctaa	ttgctgccac	gggtgttagct	cccgcagata	360
	tcccaacct	gagaccttct	ttcaatgcca	attctctagc	catctttata	gcacctcac	420
	tactaacctc	aagaacactc	tccataacat	ccatatccaa	gatttctggt	ttgaatccaa	480
	caccattgcc	tgtgatagca	tgtggacctg	gtttgccacc	gttgagtatg	ttgctttcag	540
	caggctccac	tccatatatc	ttgacattgg	ggtttttaga	tttaaggtat	cggccaacac	600
20	cagagactgt	gcctccactg	ccaattccca	tcacaaatat	atcaacattt	ccaagtgtat	660
	cttcccaaat	ctcaggacca	gttgtatcaa	aatgaatctg	agtgtttgca	ggattagcaa	720
	actgttgaca	catgaaagca	tcaggagtac	tatcaaggag	gtcataagct	ttcttaacag	780
	ttccacccat	tcctttggct	ggatcagtga	gaacaagctc	agcaccaaag	gatctcatcg	840
	tgactctcct	ctccaagcta	gtgtacgaag	gcacgtcat	tataatcctg	taccctttca	900
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 30 <212> DNA
 <213> Arabidopsis thaliana

<220>
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 35 <222> (1)...(962)
 <223> n = A,T,C or G

<400> 306

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	atacacgggt	atccagactt	gctgttcaac	caaaaatcat	gggttgcat	gaacacgggt	180
	atctttctgt	tgagaaattg	tcagtggta	ttggatttat	tagatgcttg	ggccccaatg	240
	ggaccaaaaag	ggaagatccg	tgacgaaact	gggaagatac	tgacacctat	ctgaaaggca	300
	ggccagcatt	tgaggccgat	gatcaatcgg	cggttgatata	tctcttgctt	tcgcagnnnn	360
45	aaaaatggat	agagaagggt	tatgtggaga	atcaatacta	cttgcaacggg	ttttgggnng	420
	gtttgggtga	caggtatgaa	gagatgatag	agaagtatca	tccaggattg	ggcgatgaga	480
	gatggccctt	tgtgacacat	ttttagggg	gcaaaccgtg	tggcagctat	gctgattacg	540
	cagtcgatag	atgcttcaag	agcatggaga	gggcttttaa	ttttgcagat	aatcaagtgc	600
	tgaagctgta	tgggttttagc	cacaggggac	tgttgagtcc	caagattaaa	aggatcagaa	660
50	atgagacagt	ctctcctctg	gagtcagttag	acaagttaga	tattcgaaga	atgcacatgg	720
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	acaggaaaca	tatagatgat	atacaaatac	tctcacaac	acaatgcaat	ttgtttaccc	840
	tgcacttggt	ccttgtgctt	cattgtttgg	tctcatgaag	ataagtttta	actgtcaaat	900
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55	aa						962

5 <210> 307
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10 <220>
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 agcggggaaa acaaaatata aaaaggctcg gaggtctact atgagaaaag cttcgagatc 180
 aatctgaatc agagtcgaca ttcgctgaag acctaacgga ccgacgtatg ctttcttgat 240
 20 actcgtaatc ttctcatctt tctctttttt tctttttcact aagcattcct ttcttgacca 300
 gaagattctc cagcttcgtc gtggagaaat cgtccttggc acctagatct tgaaacccga 360
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 caagcttggt gacgaagaag ggagcggttct cagcgtccat cttaatgaac ttgtgtcca 480
 catgtctagg agcaagggtc ttcaaagtct tgtccattat cttgcagcga tagaactcct 540
 25 tgtggtagaa gtgacatata actttttcac tctttgtgac ttctcccaag aagtcgcctt 600
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 gaacttcctt tttataatct ctagcagctg ccgccaatc attcccgaat gccagattcg 840
 30 agagggtcga cttcaccgta tccggatcca tctctttacc aacnnnctaa tccaactcag 900
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 gg 962

<210> 308
 35 <211> 961
 <212> DNA
 <213> Arabidopsis thaliana

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 tatctccata gacacttctt ttcttctcta tgatacgaaa cacgtctgca ccattgaact 180
 taaacaacaa caataaacac agtccactcg ctgtaatcga ataatacagc tggcttgaac 240
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 50 atgtgatgat caaggcttcg gaaaggaaca atcgctgtag acttgttatg ctttgatctt 360
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 gctttcaagc attgcaccgt ctttttagagc agtgtgtgct tcgttctctt gtcctagagc 540
 tgacaaagct acagcttgga gatacgatgc gatatgcaa gcaggagata tgacttggtg 600
 55 ttgcattgca ttgttttagtg cttctctagg catatcattc attaggtaac acagactctg 660
 tcttgcatga acagttgggg aaccattgt acctacctcg atgaactgag aatagcattc 720

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 tgtgtcctgc atctggtcgg tccacatctg gaaagaaagc tctgtggttg caccctcgtc 840
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 a 961

10 <210> 309
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 <212> DNA
 <213> Arabidopsis thaliana

15 <220>
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 <223> n = A,T,C or G

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 ctccggcaaa acttagaaga tccggcgagt aatctccgta actggacaaa ctccgtcttc 180
 25 tcaaatccat gctccggctt caccctcatc ctccccggag ctagctgtaa caacggaaga 240
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 aactgtacaa atctccaatc cctagatcta tcatcaaacc agatctccgg cgtaatccca 360
 ccggagattc agtatctcgt taacctcgcc gtactaaacc tctcatcgaa tcatctctcc 420
 ggcgaaatca ctccgcagct cgctctttgc gcttacttaa acgtaatcga tctccacgat 480
 30 aacgaattat ccggtcagat tccgcagcaa ttaggtctat tagcgaggct ctccggcgttt 540
 gatgtgtcga ataacaaact ttccggtcag attccgacgt atttgtcgaa taggactggg 600
 aatttcccga ggtttaacgc gagttcgttt atagnnnnta aaggattgta tggttatccg 660
 ttgcaggaga tgatgatgaa gagtaaagggt ttgtctgtga tggccattgt tgggattgga 720
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 35 attactgaga agaagattgt tgaagaagaa ggtaagatta gtcaatctat gcctgattac 840
 taaacgtaag attaaatttt tcttaattaa ggattttgat tgttaattac ggctttgaag 900
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 a 961

40 <210> 310
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 <213> Arabidopsis thaliana

45 <400> 310
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 gcaagaggat gttatataca catgactgat atagagagaa gtttccgaat ataaagtata 180
 caacgtaatg tactaatagg gatgtttctt taatcggttg ctccgagtga agtaatccct 240
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 ctccctcgga ttttcgataa gatccattgt gtaagaccaa tctgaatcag gcgcgggttat 480
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 55 ggagacttct ggaaacaatt gcttttgttc cttcatagaa cttggagtct gcattgtatga 600
 cgcaagggca gacttttcct ggatctctgc atatgccaat gaagcaactt tcccactgtt 660

5	gaattttctcc	catatttttac	cattgaaagt	ctgttggaag	ggaacgatgt	gcaatggaga	720
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	aagtctgtcg	gcaagcatag	aaagtcatag	tctcccttgt	gcttttcgtc	gatttcagcc	840
	accagcatct	tgtaagtgt	cttgtttggg	atgtttttga	tgattaatgt	agttcggatt	900
	tcatctccac	tagcaatcct	atccaagtcg	atatgatata	tcccaccatc	tatgaactga	960
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<210> 311

<211> 960

<212> DNA

15 <213> Arabidopsis thaliana

<400> 311

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20	ctgtctgtct	ttgagttggc	tcatagactg	tgtaatgaaa	cttttacctt	caaaagtttc	180
	tgatgttcga	tggatgcact	ctgcaacggg	ttagcctgtt	aaaggaaagg	agtatccacg	240
	aagggtactg	gagtcactc	ccgattcacg	agccaatgcc	acacgaccgg	ttcttgcaac	300
	ctcacatata	ccatagggct	ccaataacct	ttgcagtgca	accatcttgt	ctagatcccc	360
	agtaagctgc	aaagtaattg	tgtgatcaga	tacgtcaaca	gcttttagccc	tgaaaatact	420
25	agcaatgtcc	aggacatctc	ttctagcagc	agcgttcacg	gcaatcttaa	tcagcatcag	480
	ttctctttca	gaaaatggca	aatgagtaag	atcatggacc	tcatgcacat	ctacgagttt	540
	gtaaagtgtg	tgcaccaatt	tgtcgaccga	ttcatctgtt	gcagggtataa	ctgttgtaat	600
	gcgtgaaatg	cccttggttt	cagcatgtcc	tacggccaag	ctctggatat	tgtatcccct	660
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	gagaatacga	tgtaccttgg	ggcctcaaaa	tggtcacaac	ggataaacat	ctccccctgc	840
	tgatgtttcc	ttttgagggg	caatggctcc	ttttttgcta	cttcgaagaa	cactaacagg	900
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<210> 312

<211> 960

<212> DNA

<213> Arabidopsis thaliana

40

<400> 312

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	agagaagaca	agaatcaatt	aaagagaaaa	aaagatgaag	aaacagggtt	tgggtgtttta	180
45	gtcaaggagt	agtcctaagt	cttttttttag	ccagttcctc	caagaacacc	ctttagcttc	240
	ttgactgtag	tggcgtcaag	gaaagtagta	cccacgacga	gttcagtggg	aagactgtta	300
	gcaaagagtg	cgaagtcgag	aatctgcaga	cccggattag	cgctgttgaa	agtgacaacg	360
	gctgaagcag	aggattttcc	cgcgttgatc	tggaaatgaa	gcaagccctg	tgggaaaacc	420
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	cccggaact	gagctgcgaa	agcgggtgtg	acagcggcgt	tgatgatgtt	tgtagtgttt	660
	ccaggagtgc	ctaagccaga	gaagacaaag	tctgtagctt	tgacatgaat	gggacgaatg	720
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55	gaggcattgg	atagagcaaa	gagaagagat	aagaggaaga	tagtacgcaa	cattttgaat	840
	ggttggttta	agaggaagat	agtactctac	ttttcttttc	tttttcccta	ctcttctcac	900

5 tcctctcggg ctcgggtggt tatatagaga ggtgtgggat aaactgtgtc ggacgcgtgg 960

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<211> 960

10 <212> DNA

<213> Arabidopsis thaliana

<400> 313

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	aaattcgtta	caacatcacg	aatctgtaat	attdtctatt	cgtataagca	aaatgtacaa	180
	ttcacatcac	taagacagat	tacttaacga	agacgtttag	ttaccttatt	tttcttcgtc	240
	gccgtttcac	acactaacac	tacaactagt	ggtaaacgta	tacttaacgg	cgttgtctcc	300
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20	atgatacttc	ccggtgataa	aagtcccaac	cttccacctc	actctaccat	cagcacgaat	420
	gatcaacaaa	acgacaccgt	tatctttatc	ggtgtcaaga	ctaacgccgt	taaaaggagc	480
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	ccggcgagag	tggccgtggt	tttcacagtc	tttcatggtg	gttggttttt	ttctttctcc	900
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<210> 314

<211> 959

<212> DNA

35 <213> Arabidopsis thaliana

<400> 314

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40	ctggcacaaa	ggtcacagca	gctaagtcgt	gtccccata	gtcagtatcc	tgtccagcaa	180
	tcttctaaac	aaccttttag	tcagattcca	caactagtag	cacaaccagg	tccttcttct	240
	gtgaatcctc	ctcctagatc	ccaagttaaa	gtcgaaaacg	ctccattcca	acgccagcaa	300
	gtgggtccag	cttccaccaa	cataggttat	agtagtcaga	attcagttcc	gaataatgct	360
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	gatcaaaaag	gatatttttc	cgcatacaaa	tcacatagaa	aagaagaagg	ctctctcacc	840
	tgaattgagg	tgagtgtatt	tacgattagt	gtagcattta	tttgtgtctga	gtttgtctta	900
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<211> 959

5 <212> DNA
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<220>
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10 <222> (1)...(959)
 <223> n = A,T,C or G

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 tccaccacct tcagatcagc cactgttgct gccaatggag acgggtttat ggcacaagac 180
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55 <210> 317
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 <212> DNA

5 <213> Arabidopsis thaliana

<220>

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<222> (1)...(957)

10 <223> n = A,T,C or G

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20 <213> Arabidopsis thaliana

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40 <223> n = A,T,C or G

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<211> 950

10 <212> DNA

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<400> 332

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<211> 950

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<213> Arabidopsis thaliana

35

<400> 333

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55 <211> 950

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5 <213> Arabidopsis thaliana

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	gattataata	aggcatgcaa	taataattac	gttagtcgac	ccacgtataa	gttggtactta	900
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25 <210> 335

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30 <400> 335

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50 <212> DNA

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25 <213> Arabidopsis thaliana

<400> 341

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	aagattaaga	aatttctttc	tctctagttt	gtttctggtc	gtattttaagt	tgctccacag	900
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10	gccgaatctg	tttccaggcg	attcttcacc	gcgttagcga	acgccattcc	tggacctact	720
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    <212> DNA
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25  gacgacactg tcgtggatcc tggacttctg gttctgtgca acacattcag atatccacat 300
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    ctgctgctca aaggctaagc aaagccttct gacttcttct tcataaaatg ctttgtcgag 420
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5 taaaagaggc ttgaacgtcg tcggatggat gaacactgtg ttgaaagaga atcgattaga 540
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15 <211> 945

<212> DNA

<213> Arabidopsis thaliana

<220>

20 <221> misc_feature

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<223> n = A,T,C or G

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<210> 348

<211> 945

<212> DNA

45 <213> Arabidopsis thaliana

<400> 348

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<211> 944

15 <212> DNA

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<220>

<221> misc_feature

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<223> n = A,T,C or G

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<212> DNA

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45

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<223> n = A,T,C or G

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20 <213> Arabidopsis thaliana

<400> 351

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<211> 943

<212> DNA

<213> Arabidopsis thaliana

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 <212> DNA
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<210> 354
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 <212> DNA
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	ggtgggcatg	gtgtaggcgg	aggcttgtgg	tgggggtggtt	tccgagtaga	cggaggagggc	900
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 35 <212> DNA
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 40 <222> (1)...(941)
 <223> n = A,T,C or G

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	ctctcaagat	atattgatgg	tatgnnnctg	ctgctaatac	tcccacgaat	ggtccaaccc	240
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10 <211> 941

<212> DNA

<213> Arabidopsis thaliana

<400> 357

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	ctttttcagt	ttcatttatg	tatcaaaaga	caacaagacg	atacaaacia	acaggaccaa	180
	tgagtctggt	ttgcttcac	aggcagcctt	actaggcttt	tttttgtgaa	gctgcagatc	240
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	ccaaagtcgt	ccaataagca	gaacattgcc	tctccacaat	ctctttcctt	tccccagtaa	900
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<211> 941

<212> DNA

35 <213> Arabidopsis thaliana

<400> 358

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55 <210> 359

<211> 941

5 <212> DNA
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<223> n = A,T,C or G

<400> 359

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	gaagctgatg	tcttgatccg	gaaaatggat	cttgaggcaa	gaagtttgca	gccgagtgt	300
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	gtggagaggc	ttgaccaatc	aagtgcagag	atcagggaga	gtagaagact	aatgctggag	540
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	catnnncaca	acnagcttca	tggtgtggat	gannncattg	acaagagcaa	gaagggtgtg	660
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	tggttacttg	tatttttaag	tacgatgttt	gtattgaagt	ggcaacactt	ttaacattca	900
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30 <210> 360

<211> 941

<212> DNA

<213> Arabidopsis thaliana

35 <220>

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<223> n = A,T,C or G

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<400> 360

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	tgccggcgga	ttcccagtcg	ttcgccctcag	gggtcttccc	ttcaactgcg	ctgacattga	240
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<210> 361

<211> 941

10 <212> DNA

<213> Arabidopsis thaliana

<400> 361

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	ctttctaata	agaatgaaat	aacccaaaaac	agcacaaaacc	gcagcaacag	cattgccttc	180
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<211> 940

<212> DNA

<213> Arabidopsis thaliana

35

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<223> n = A,T,C or G

40

<400> 362

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	gagcctgcct	tagagggtgt	tgaccctgtt	gatgcattaa	cgcattcaca	cttgccatct	360
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55	cacttttttcc	atcagaactg	agcttatcat	caccagaagt	agcgccttc	gtggcccagt	840

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<211> 939

10 <212> DNA

<213> Arabidopsis thaliana

<400> 363

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<210> 364

<211> 938

<212> DNA

<213> Arabidopsis thaliana

35

<400> 364

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55 <211> 938

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40 ctgaccttg cttcaaacca gatggcaatg gatttgactg gagatcagta tcaacaaata 600
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<210> 367

<211> 938

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

55 <222> (1)...(938)

<223> n = A,T,C or G

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<400> 367

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	tctgtgttct	tgcttctatc	agaaatagaa	gaagtagctg	tatacaacaa	atcattgatt	180
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	tagaattctg	ggttcatcaa	gttattttacc	acccacgaaa	acggtatctc	tagcttcatt	360
	tctatccctt	gtatccctac	caatttgatt	tcacccatct	ccctcgaccc	atctgcttct	420
	tctgtatcat	ctatgcttct	ttcttcacca	ctcgtttgcg	ctctgtctcc	cataaactca	480
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	tcaacagggc	gattaaggta	cgagatgtca	tcccagggtat	cgatctccgg	tacatcttca	600
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	aaaaaggatt	ttacattaaa	tcaggacgct	agtactttgt	atcatgtttg	ccatcactgc	720
	aatagatgca	acaattttgtg	aaaagtcatt	attcttttcc	tgtaagttn	ntgctgttta	780
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	gcataaaaat	ataccagtc	catcttgtga	tactactttt	ccaaatatgg	gaaaatttga	900
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<210> 368

25 <211> 937

<212> DNA

<213> Arabidopsis thaliana

<400> 368

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	tcttgaacca	taacctgact	caagcgcgac	gcgttcgcgt	gttgtagacg	acaatccatt	180
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	accaatgtgt	gtaccccggt	aaaaccggct	tcttttagccc	tctcgtagtt	gctaaaccgg	900
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<210> 369

<211> 937

<212> DNA

50 <213> Arabidopsis thaliana

<400> 369

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	caccgtcttt	gcagctcttg	caaagccccc	aacttcacag	tatgtgaacg	cttctcgttg	240

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15	cccaagtttt	tgtagactgt	tgttttgact	ctgttatggc	ctgccatctc	tgatccattt	900
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<210> 370

<211> 937

20 <212> DNA

<213> Arabidopsis thaliana

<400> 370

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	tcttcacgag	aagaatctctg	actttgaatt	cgttcatatc	gagctcaaag	atggtgaaca	180
	caagaaagag	cctttcatct	tccgcaaccc	ttttggtaaa	gttccagcct	ttgaagatgg	240
	agacttcaag	cttttogaat	caagagcaat	cactcaatac	atagctcatt	tttactcaga	300
	caaaggaaac	caacttgtct	cccttggctc	caaggacatt	gcgggcatag	ccatgggcat	360
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	aaagcctttg	tatggtatga	ccacagacaa	aaccgttggt	gaagaagaag	aggctaagct	480
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<210> 371

<211> 936

<212> DNA

<213> Arabidopsis thaliana

45

<220>

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<222> (1)...(936)

<223> n = A,T,C or G

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	tgaagttacg	gttcgcgtccc	gtcgtgtgct	cctcacacat	ttgtgctcca	gcgatcgaca	180
	agtcgaactt	cgtcatatcc	gaatcggtgt	cagaagatga	gctttgggct	gcagcttgct	240
	tccgcgtacg	aaccttcaac	gaactcaatc	cttctgctta	caatatccaa	gatcatagaa	300

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<210> 372

<211> 935

<212> DNA

20 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(935)

25 <223> n = A,T,C or G

<400> 372

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 30 tacaccggcc ggtgagctga ccgtagaaga gaggaatctt ctctcggtcg cgtataagaa 180
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45 <210> 373

<211> 935

<212> DNA

<213> Arabidopsis thaliana

50 <400> 373

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5	gaaagccacg	gcgggattca	tggaggctcc	agagaaagct	cctccagcta	agatggtggc	420
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10	gataccacgg	aggagagtga	tgttaccacc	gatgaaagca	ccgaaagtga	cggcaggggtt	720
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	agccagtgcg	gcagctacga	gaccagaagg	agtgggtggct	ccgttttcag	tgagcttggt	840
	gaaagccatg	ccagagcctg	aaccggcgac	gacaaagatc	aaagttgaaa	tgaactcagc	900
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15
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 <211> 934
 <212> DNA
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	cgttacatat	acattcacag	gaacttacat	acagagaaga	gaagatcact	tatggtgctg	180
25	cctcttcctt	ttgcatctgt	tcgataagag	gctcgagaat	acaagacttt	ggattcttac	240
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	ccttttcgcc	accgggaaat	cctcctgtga	gacccatcat	ctctttctcg	aaaccatctt	600
	caggtacttt	aaaagacaag	ttactgtcat	cgctctctct	ctctgtctcg	ttgttctcag	660
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	aaaattgatg	tgtttggcct	agaaattttg	atcgatgaat	cggagtctta	atggtcggga	900
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 <210> 375
 <211> 933
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 <213> Arabidopsis thaliana

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	ttagaagaag	gtttcttgga	tccacgtccg	gctataaaact	cctgcatctt	tctaaactgt	180
	tccttcgtca	tcccactgta	atacgcgtga	gctcgtctct	tttctagtgt	gagagcatgc	240
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	accacatggt	ttacaaaccc	taacttccca	gccacgtctg	ctgtcagtgg	catcgatggt	420
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 <222> (1)...(933)
 <223> n = A,T,C or G

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 40 <212> DNA
 <213> Arabidopsis thaliana

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	ctcacctttt	aacctaattc	tagacagact	tatctgcctt	ttaaaaaaga	catttttaaaa	180
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10 <211> 932

<212> DNA

<213> Arabidopsis thaliana

<400> 378

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	agcttggttaa ctctaaatga ccaaattggat gaaagagcaa caacatggtg atatgatata	180
	cacatgtatt atgaaacttg gtctcaacaa ggtaacttga aacctatgta acgaccagag	240
	acataatcat tccaaacatc aagagctcca tagcttgtca tcaacacaat actcaatgcc	300
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	tgaaccacct ttagtcccac gagtgatgcc acaaaacata tgaccgcaa tatacttgcg	420
	gttcgggtat gttccatgcc tagtaataag tattgaatcg cagacattgt tgatgaaaaa	480
	agaaccatga aagaacatgt cgctgcagtt acctcgggag cgataccgac ttgaagaaga	540
	agaggactaa tgagcattcc acctccaata ccgaacacac caccctaaaac tccagctaat	600
25	agagccatta cagggaaacat acacttggtt gatcttgctc catcatttga tctcaaatct	660
	tctacatcct ttactgagac atggtaatct gattgttggt ggctttgaac attgtcactg	720
	aagcagatcc agagagtga gaagagagtt agtggtattt gagacgatga aatgagccag	780
	taggcgtttc cacatggctc gatcgatatg attccctcgc catatttggt tctcgaaga	840
	agataaactg cgaagtaaga aagccaaata atgacccaaa ctccaagctt aatccatgga	900
30	aacctctttg gtctctgata atcctccaag ag	932

<210> 379

<211> 932

<212> DNA

35 <213> Arabidopsis thaliana

<400> 379

40	ctttttttttt ttttttttta atataatgta tataacatta ccattatacg caaattatta	60
	agcgattagt acaacttaga atgtaagaag gtatacaagc aataaccgga aactttatgt	120
	cacaatttac ggttacttta accatcagtc tctatatgct cactcatgag caaaagtfff	180
	taagcggcaa gcaacttctg gatgtctttc tcgatttgga aaggggatgt ggtgggaggg	240
	tacctctcaa cgacctttcc ctttttatca atcaagaact tctcaaagtt ccatttaatg	300
	agaccacca agaatcctcc tgcgtttgat ttcaagaact cgtagatcgg cgctgtgctt	360
	ggtccattca cgtcaacctt atcaaataata gggaactctg ctttaaaccg ggtgcaagcg	420
45	aattgtttga tctcggagtt tgaccggggc tcttggaac caaactgatt gcagggaaaa	480
	gctagaatct caaatccttg agttttgtat ttctcgtaca gatgtgaaag ctctgagtaa	540
	tttgatgatg tcaaaccaca tcttgaagca acattgacaa tcaacataac tttccccttg	600
	aatttgttca aagcaacatc ctccccatca atgtccttaa cggtgaaatc gtgaacgggt	660
	ttttctgcag cagctctagc ttggacagtg aaaggacgag acttgaaag aaaccagga	720
50	ttaattggag attttagaga aaaccattta ctacagattcg cgaaattcga tattccgggtg	780
	gagaatttca aggaaggag gagaaagggt gctgaggaat taggtctaga actgttgaag	840
	actgtagaga agtttccgta cgaagaagat gaagtagtca tggagacgag tttatgttcg	900
	tcttctttcg accagtgtta ccggacgcgt gg	932

55 <210> 380

<211> 931


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5  <212> DNA
   <213> Arabidopsis thaliana

   <220>
   <221> misc_feature
10  <222> (1)...(931)
   <223> n = A,T,C or G

   <400> 380
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   caaatgtttt tcttcttttc atctcaaatt tcacatttcc actaatcaga caccaattgt      180
   ttaagcagag attggttcgt atggatatga aagccaaggg tgcttcagag cctctgctgc      240
   agaaggacgc ttctttgggt ttatctcaag aagatgagcc acaaagtctg tgaatccttg      300
   gtctcccatt ggcagccgat gtctcaacga tgttcttttt ggtatcaggt actccaatct      360
20  gttgctttcc tggttccgct catagagcat tcggtttttt gtgaagtatt tgtggnnnnc      420
   ncgtncntnn nnaagcattt cattatcgaa agatcctacg attcccataa cccttgctag      480
   caaactggct ggcgaatcat tctggaagag aacgttgccct gtacacagtt cagccaaaat      540
   gcaccaaga gaccacacat ctatcttttt atcataagga agtcccaaaa tgacttctgg      600
   tgctcgatat gaccttgact ggacatagga gcataggtgg tctgtctcga aacagctact      660
25  tccaaggtca atgaccttta ttccacatct gctataactt ttaaccaata tgttctcagg      720
   cttcaaatca cagtgtataa gtccaaggcc atgtagaaat tgaagtgatt cgagacactg      780
   gatagtgatt gactgcaatc ttggcatcgt gaaataaact tcaccacctg attctctggt      840
   aaatttgtag aattcgata gattggcctt aagaaattca catacaatta gcaagtgtct      900
   gcggtagtaa aagtaatcat acaaccgtag a                                     931

30  <210> 381
   <211> 931
   <212> DNA
   <213> Arabidopsis thaliana

35  <400> 381
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   tttctctctc gttcttgctc ttttgatctg cgtgaaaaga aagaattttt attttcccga      120
   cagagaaaag tcccaatttt taaaattagg actttttgat tttcgaaaat tttggtgtta      180
40  atggaaacag atagtatcga ttccgtgatc gatgacgatg agatccatca aaaacaccaa      240
   ttctcatcaa ccaagtctca gggaggagcc accgtggtaa tctctccggc tacaagcggt      300
   tacgagctcc ttgaatgcc tgtctgcacc aattcaatgt acccaccaat ccacaggtg      360
   tttcaatgtt ttggtcaata cttttgtctt cattttgaag cgtttcagct cgggtatggct      420
   ccagtttaca tggcgtttct gagattcatg ggcatgaag atgacgcacg aaactataca      480
45  tacagtttag aagttggagg cagtgggaga aaacagacat gggaagggac accaagaagt      540
   gtcagagata gtcacaggaa agtcagagac agtcatgacg gtcttataat ccaaagaaac      600
   atggcactct tcttttccgg tggagacaag aaagaactga aacttagagt cactggaaga      660
   atctggaag agcaacagaa tccagattct ggtgtttgca taacctctat gtgtagtagc      720
   tgaatcaaaa tcagccaacc cttcaaacct atcttaaggt gtctgtcga tttcttcaat      780
50  tcgattttgt ttcggttttg tgtgttggtt tggtcagaa tccagatagc ttttttacat      840
   tcaaaagtgt atttagagaa gtaaaaagag ttgttccatt tgccagaaat gtgcagaagg      900
   tcacaaaagt tgcaataact tccaaagatt g                                     931

   <210> 382
55  <211> 931
   <212> DNA

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5 <213> Arabidopsis thaliana

<400> 382

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10 ctaaaatgtg acatgatcct caatctaaca gacaaaagta acaagttttg tgacacaagc      180
tgataggttaa attacccaaa ttgagttttt tcaatcaaag acgagcgatg actgcttcga      240
cttcttgtgg agtgtagaga tgataagctg gtgctacctt ggcaatatcc acgttatttg      300
gagtcacctt ttcttccata acttgcttta ggatagatac agcgatagtc tcagcttctt      360
gtagagacaa atctttgttg aattgctctt gaagagagct atcagctcct tcagaacctg      420
15 aaccaattgc ctttgcattg cactgccaga atgttcctga aggatcagtg tagtacaagc      480
ttggtccatt ttcatcatgg ccagcaatga gaagagatac tccaaacggc cgagacattg      540
attcttcctc tccttcacca aaccgtaaag ccagatcaca cagtgcctgt gttgtggact      600
ctacagtcac cggtcacca taccgagaatc tatggttttg agtttcaact ctagcatgct      660
caacaagtgt ggcgcgctca gcaattaaac cgctcatagc acaaccaata tggcatcaa      720
20 tttccataat cttctccaca ctgctcggtt ccagcaatgg cgacgtgata cgcttctcga      780
cagcaagcac aactccttct tttgtcttta ctccaattgc agtagaacca agcttgatag      840
cttcaatggc atattccact tgaaatagcc ttccttcttg agaaaaagtg ttcactcctc      900
tgtcatactc agttctagtg agaaacatct t      931
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25 <210> 383

<211> 930

<212> DNA

<213> Arabidopsis thaliana

30 <400> 383

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aattacaata cccagacgac aaaaccaagt ttttttttca aatttacaaa cccttgctta      120
cttctatacc taatttgacc cattttttta ttttagagact ttttttttct actggggaga      180
aacagtgaat aaggtatatc cactcactcg ccagcagact cacctgcatt cattcttcgc      240
35 catcatcatc agtagacaga aatgtcgacg cttatgcctc ccatggaaaag atttttccca      300
gaaagctttt ggtcctcacg caagcccagc cacagacacg atatcctcgc catcgcagcc      360
tgccccacca ctttcacctt gtacaccatg etcagatctg cagctgccgc ccatagctca      420
ttcccattaa ctttactga cctccgtgac cgtgagtcac catcattata gccctctaga      480
tccgagtggg tgactacaac cattgaccca tcatcaaaca ccactacatt cccagaacaa      540
40 acctgcttca catttctcgg gatcaaagct gaagttgcat cagttaagca actctgagta      600
ttcagcacct tgacatggta gtactcaaca acggccttcc attgggctgc tgctaaaaga      660
accctgggac tgattgatct cacgtaggaa tatgctgctt cagggtgcat gtttttgtgt      720
tgaaccaagt agcatatgac aatagttgtg ctgcgacccc gacccgcttt gcagtgaaca      780
taagtcgtct ttccaagcga agcatttcta tggataaatt ctacagcttg gcatattgct      840
45 tccatggaag gagcaaaaca ataatctctt gtagcaatca ccagggtggc aatgcagtaa      900
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<210> 384

<211> 930

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

55 <222> (1)...(930)

<223> n = A,T,C or G

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 gaatggagtt tggtcagttt aaaatcttga aggaaagaca aaacaccaac gaggaatta 120
 acagaacat tcttcagtgg agtttgtctc agcggttctg aagagtctcg attgcctttt 180
 10 tccacactga agctctctgt tttgcgtctt caaatgataa aaccttcttt ggcgtgcaaa 240
 tcttgaaatg tgaagggtta gtgactacaa cgttgagggtc attcgagtta tcagaccata 300
 taatgtttcc tttcacaact agttttgacg ggtcgacata gatcagcttg ggtttggttg 360
 tgagtattag ctgcaccttc ttgctcgta tttctgaag cttcttcacc gctgatatca 420
 tcagaaccga ttctcctggc tctaaaaact gttgccatct tgaatcaaaa gagtctattg 480
 15 aagcaagtgc agttatggaa cccgatgatt cagaagatgt aggaggagca ctgtgccccct 540
 cgttctgtgt ggctaaagaa tctccaatat gtgtcagggt ccatggagaa ccatgtgtgt 600
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 gggaccttag attcttcag tcaactccat taaagaaagg atgtctctta agagcaacat 720
 annntctgn nncagcacct ggccttctgc ttggctcggt atccagcaac cggtcgatga 780
 20 ggtctcttgc tgctctgaa aaatgatttg ggaactttat atctctggct ataattcttt 840
 ggaaaatcag ccattcactt gcatctttaa atggggaagt ccccgaaagc atctgataga 900
 gagtgcagcc gagagcccaa agatcattcc 930

25
 <210> 385
 <211> 930
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 <213> Arabidopsis thaliana

30
 <400> 385
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 gcttctccga ttctcctttt gttcgaagat tcttcagtct tccatggagt cgagcactgg 180
 acaaagggtta agcgatctaa gagatcaaga tctcgatttcc accaccaaaa cctcactgag 240
 gaagagtatc tagctttttg cctcatgctt ctgcgtcgcg acaaccgtca gctcctctct 300
 35 cctccggcgg tggagaagtt gagctacaag tgtagcgtct gcgacaagac gttctcttct 360
 tacciaagctc tcggtggtca caaggcaagc caccgtaaga acttatcaca gactctctcc 420
 ggcgaggag atgatcattc aacctcgctc gcgacaacca catccgccgt gactactgga 480
 agtgggaaat cacacgtttg caccatctgt aacaagtctt ttcttccgg tcaagctctc 540
 ggcgacaca agcggtgcca ctacgaagga aacaacaaca tcaactactag tagcgtgtcc 600
 40 aactccgaag gtgcggggtc cactagccac gttagcagta gccaccgtgg gtttgacctc 660
 aacatccctc cgatccctga attctcgatg gtcaacggag acgacgaagt catgagccct 720
 atgcggcgga agaagcctcg gtttgacttt ccggtcaaac ttcaacttta aggaaattta 780
 cttagacgat aagatttctg ttgtatactg ttgagagttg tgtaggaatt tgttgactgt 840
 acataccaaa ttggactttg actgattcca attcttcttg ttctttcatt ttaaaaaatta 900
 45 ttaaacgat tctttaccac ataaaaaaaa 930

50
 <210> 386
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 <212> DNA
 <213> Arabidopsis thaliana

55
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 <222> (1) ... (929)
 <223> n = A,T,C or G

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 ttcagacctc aaagagttga ctttttgttt gcattaggag ctttgacata agcaaccagg 180
 gaagaatctc cggttctagt caatgtcttg agctcgtagc ccaaccaaca cctcgaactc 240
 10 tttctattgt agaaaaaccc taaacatttg caatctctcg tacacttgtc cccacacgca 300
 ctctccgtcg tcgatgatcc accgttatat tttgtcatga aactatcagc tccttcgacg 360
 ttgaagtagt gaaatgtctt gggatcgcaa cttgcgagac ttggagattt acatgtctcg 420
 tcccaaccaa gaagcccttt gtcgctagga caagcgttac actggccttt cttacacaaa 480
 ccaaacccca aacaatgctc agggatccta cactcgtcgt taccgtcagt gtcggcgctg 540
 15 gtaaacgcnn tgtatgtcac gtcccaagcc gtggaagtcg ccaacgtact gtaactccaa 600
 actctgatgt ttccgctctga ttctaaccga ataaaactca acgtcgcgtt gtgtttcggc 660
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 ccccacgttg tgtcggaatc ttccacagct tggaaagtca ttgactggaa ttgtgttatc 780
 ttggtgaaga attcgtattc aaaataagcg attggtttcg gagttttgtt tgcgtgttag 840
 20 tacaagacta gcttccttggc ttccatcacg agactgtacg gtccgtttgt gttgacagat 900
 ggagacagtc tgettacgag tttggtccg 929

<210> 387

<211> 929

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

30 <222> (1)...(929)

<223> n = A,T,C or G

<400> 387
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 35 gaagagtcca acaagtgggt gatccggcaa catctactta acctaatctc ttcttaccct 120
 tccttagagc ccaaaacggc atcgtttatg cacaacgatg gccgctccgt caacctcctt 180
 caagcagatg gtacgattcc gatgcctttt catggagtca cctataacat acctgtgatt 240
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 gatatgatca tcaagcgacc tcacgcacat gtcactcctt ctgggtctcg ttctcttccg 360
 40 taccttcaga attgggtcta ccctagctcc aatctcgtag atctcgtcnn nnatctcagc 420
 gctgcttttg ctcgatgatc gcctctttat tctcgacgcc gtccctcagcc accgccaccg 480
 tctcctccta cggatatacga ttctgtctctg tcacgacctc cttcggtgta tcagtcattg 540
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 gttcaccacc agcagcaatc tgatgatgcg gcggagggtt tcaagagaaa tgcgattaat 660
 45 aagatggtgg agatggttca tagcgatttg gtttcgatga ggagagccag agaagctgaa 720
 gcagaggagc tgctgagctt gcaagctggg ctgaagagaa gagaggatga gcttaataata 780
 ggggttgaaag agatggttga ggagaaagaa acacttgaac aacaattaca gattatctcc 840
 atgaacactg atattctaga ctctgtgggtt agagagaacc aaggcaaaac caagaattta 900
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50 <210> 388

<211> 929

<212> DNA

<213> Arabidopsis thaliana

55 <220>

5 <221> misc_feature
 <222> (1)...(929)
 <223> n = A,T,C or G

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 acaccaccaa tagctccgcc gtcatagaatc cttctcttcc aggtcaacac aagtcagagc 180
 tccaaaaatg gagtcatgag attgttttga gacgcatgtg aatcaagatg atctgttagt 240
 gaagtaccaa tacatctcag atgcgttgat tgctcttgca tacttctcaa tccactcga 300
 15 gcttatctat ttctgtgcaa agtctgcttt cttcccttac aaatgggtgc ttatgcagtt 360
 tggagccttt atcattctct gtggagctac gcatttcata aacctatgga tgttcttcat 420
 gcattccaaa gccgttgcca ttgtcatgac tattgctaaa gtctcttgcc cgggtgtgtc 480
 gtgtgctacc gcgttgatgt tggttcatat tattcctgat cttctcagt ttaagaacag 540
 ggaattgttt ctcaagaaga aagctgatga gttagataga gaaatgggtc ttattttaac 600
 20 acaagaggag actggttagc atgttaggat gcttactcat ggaattagaa gaactcttga 660
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 atgtgcggnn tggatgcctt ctcaaagtgg tttatatatt cagctttctc atactttgag 780
 tcataaaata caagttggaa gcagtgtgcc gataaatctc ccgattatta atgaactctt 840
 caatagcgct caagctatgc acataccnna ttcttgtcct ttggctaaga ttgggcctcc 900
 25 ggttgggaga tattcacctc ctgaggttg 929

<210> 389

<211> 929

<212> DNA

30 <213> Arabidopsis thaliana

<400> 389
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 tgtatgttca gctagatggc aagtggtgg caaagttcct ggtggagata atgagtatat 180
 agatatcata ttgagtgata ctgaagtgg tcaagatgat cgtttgattg ttgatattga 240
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 tgatgcagcg aaattctcct taaagcagaa ttcaatgccg ttacctccat ggagatcttt 420
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 45 gttttcgagt gtaatatatt tgccgctgcg tctttttttc tttttaatat ggattcattt 780
 ggggttacaa taacagccaa ggtaggctt tatacaaaaga agataatata cgaaagggtac 840
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50 <210> 390

<211> 929

<212> DNA

<213> Arabidopsis thaliana

55 <400> 390

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   ggtgttaaga gagctcccaa tatgtgtgcc tctgttgga tccaaggcat cgcttgggct      180
   tttgggtggca tgatctttgc tcttgtttac tgtactgctg gaatctcagg aggacatatt      240
   aatccggcgg tgacttttgg tttgttcttg gcgaggaagc tatctttaac cagagctctg      300
10 ttctacatag taatgcagtg ccttgaggct atatgtggtg ctggtgtggt taaagggttt      360
   caaccagggc tgtaccagac gaatggcggg ggagctaattg tgggtggctca tggttacaca      420
   aaggggttcag gtcttgggtg agagattgtt ggaacttttg ttctgggtta cactgttttc      480
   tcagctactg atgctaagag aagtgccaga gactctcatg tccctatctt ggctccgctt      540
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   gaccattgga tcttctgggt cgggccattc attggtgctg cgcttgctgc tctgtaccat      720
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   tgatcatcat caagctaaga atatatcaat ctttaattct atatgctttc ttcttgtttc      840
   ctatgtcatg tgtgatgatc tctatatgta ccactagagc tttgatcttg taacagtgta      900
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<210> 391

<211> 929

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(929)

30 <223> n = A,T,C or G

<400> 391

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35 acaggcccta gaaccatcac caaccaatcc cctaaaccga attcgactct taaccagcgt      180
   aaaccgccct taccgaatct atccgtctcg agaaccggtt caacaaagac agagaaagag      240
   gaagaagaga ggcactacag gggagtgaga cgaagaccgt ggggaaaata cgcggcggag      300
   attagggatc cgaacaaaaa ggggtgtagg atctggcttg ggacttacga cactgccgtg      360
   gaagctggaa gagcttatga ccaagcggcg tttcaattac gtggaagaaa agcaatcttg      420
40 aatttccttc tcgatgttag ggttacgtca gaaacttggt ctggggaagg agttatcgga      480
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55 <400> 392

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<213> Arabidopsis thaliana

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5 cgtcaccact ttggaaacaa gacgaatggc ttcaacacag cgttggagat ccaccggggtg 720
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 acccttttct gtttccttct tcttcattgt agaagcataa caatactagt aattcatcac 180
 25 taaaaaacgt tccaacgtga aaacccaaat ttttttcatt ctttttctgc agaaaatgtg 240
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 40 <211> 925
 <212> DNA
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<220>
 45 <221> misc_feature
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 <223> n = A,T,C or G

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	caatatcgat	gaagacaaaa	nntcctccta	taagcgacgg	tacccccaac	gagagtgtat	600
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 <223> n = A,T,C or G

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<212> DNA
<213> Arabidopsis thaliana

<220>
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<223> n = A,T,C or G

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45 <213> Arabidopsis thaliana

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55 cgagcgacga attccaatgg aaggaagaaa gaagaaagct tcgtcttctc ctcttctgtc 180
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<210> 412

<211> 922

<212> DNA

<213> Arabidopsis thaliana

45

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

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<210> 413

<211> 922

<212> DNA

20 <213> Arabidopsis thaliana

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<212> DNA

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<223> n = A,T,C or G

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 <212> DNA
 <213> Arabidopsis thaliana

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<210> 419

10 <211> 920

<212> DNA

<213> Arabidopsis thaliana

<220>

15 <221> misc_feature

<222> (1) ... (920)

<223> n = A,T,C or G

<400> 419

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 cctctgcttg cttcattctc acaatgctct ctagtctctc gaaacgaggt tcctttgggtg 420
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 atatgcgatt gcaagcttca ggaaggccta tcaatttact tttcaaactt gccagcatcg 720
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<211> 920

<212> DNA

40 <213> Arabidopsis thaliana

<400> 420

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 45 acaaggggcg atacagatgt aacgtggaat gtagaaagtg ttttatatag cagaataact 180
 gaagtcaaca ctatcatcat tggagacgga aggagaagga gaaggagact cagcagaagc 240
 agtgagtacc acaaaggcac caaagagaat agtgataatg gccgtgaagt tgataagaaa 300
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 50 cggaagcaat ccgcttttca aatttggtga tcctcctggg aagaagaaca ctatgaagct 480
 gtacacccac tggaagccat aaagagaaat gactccaata ccaatccagg aatggagact 540
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 cccaagagcc agagcaatgg catggagtat aaggtggatc aacttcttca ctggtttctc 660
 cagcgggaagc gatttgtaac ttatgatggc ttctcctccc aagattataa atccgatgag 720
 55 catcagaaca ggatgcagat tgaagatgag attcttggtg tagcttccc aggccaatcc 780
 acctctgtaa ctgatactcc aaaccagtac cataatcgcc gctattaccg ccagcgcgtg 840

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<211> 920

10 <212> DNA

<213> Arabidopsis thaliana

<400> 421

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atttttacat tcattagttg aaagggataa caatatcgcc aatgttggtg tgccatggat 180
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25 caaagtcacc aggagcagaa ccgtcaaggt aagctggctg tggctcgcca ggcattccagt 720
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cgaatttaga cttggaagaa gagagaagcg aagggtacac ggcggtctatg ccacagctca 840
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<211> 919

<212> DNA

<213> Arabidopsis thaliana

35 <400> 422

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attgaaattt tatctaacat gcatgtagta tagaaggcgg cttcagtgat gtctaagcaa 180
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<210> 423

55 <211> 919

<212> DNA

5 <213> Arabidopsis thaliana

<400> 423

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10 tagcatatac actaagcaat tacgagctgt tcgattacat tcaaggcgct tggactaag 180
tttggcggtg aatgattaca ccaaagcaaa gataactgaa agaattgagc catggattag 240
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gatgttgaga tgatgcaagt ttaggtgtgg agttagtttt gagatagcta taggtggatt 720
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25 <210> 424

<211> 919

<212> DNA

<213> Arabidopsis thaliana

30 <400> 424

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35 cgcgaggagc tacgatgttg gtgatgatac ggaatggacg agacctatgg accccgagtt 240
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<211> 918

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

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ctgcatttag aaagtattag gctgttttagc ctgagagatc atctggacaa cctctctcat      180
10 ggtcgggtctc tcaacactat gttcttgcac acatagcatt gccacaaaga acagttccat      240
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25

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<210> 426
<211> 918
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<213> Arabidopsis thaliana

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<220>
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<222> (1)...(918)
<223> n = A,T,C or G

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tgaacaatga gcatcatact aaaaagtgtg aaaactatgg tttctgagtt ttgaaaatgc      180
tacaagaata tcataagatg agggaggttc atatcactta agtaactgtt gcagttatct      240
cacaaaagtg ttgtcgtcgt cgcgcggttt tagcggtatta ttttaaaata caagagacgc      300
40 tgattcatca gtggaaaaca aatcctccgc ccgagtgttc aacttcctga ggagggggta      360
gagatgaaac ccaatctgat gcatgtgttg gaagaagccc caaagtgtta agcttcagga      420
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ccactttgtt atccttgaat ggctcaaaaa tctttccaac actctgaaga gcaactgatg      540
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45 tccacatcat gaaaccatc atcatcaa atcttaaatgg agattgcgt acttcccacg      660
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cagtagattg atcggagaat tcgacggccc atctccgacc agtaccatc actgctttgc      840
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55

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<210> 427
<211> 917
<212> DNA
<213> Arabidopsis thaliana

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5  <220>
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   ggacgagcct accaagtggg ctttatacag agccgctcatt gccgagttcg tagccactct      180
   cctcttcttg tacatcaccg ttttaactgt catcggttac aagattcagt ccgacacaaa      240
15 agccgggtgga gttgactgcg gcggcgtcgg aatccttggc atcgcggtgg cttttggtgg      300
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30 <212> DNA
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   <223> n = A,T,C or G

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   gctctataca attcacctct accgcataag aaaccatatt tttcatcttg agaagattct      840
   tttgttgaac aaatgtttat tcaagttgct cccttctcgt ggaaacgtgt aattcataat      900
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55 <210> 429

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5 <211> 917
 <212> DNA
 <213> Arabidopsis thaliana

<400> 429

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	gccggcgaga	aacaatgatt	gcaaggattt	ttcttggacg	gcaccaagag	ttttagttaa	180
	ggaaataaaa	ttgattagta	acagaacaaa	aaagaccgag	acaacgactc	actctgcttc	240
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	tcacaacaga	ttctaccaac	agttgatatg	gtttcaacag	ggtacaatcc	acgaagagtc	780
	tcagcaccaa	gaagaattgc	atcacttcca	tctaaaacag	cattagcaac	atcagttgcc	840
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<210> 430
 <211> 916
 <212> DNA
 30 <213> Arabidopsis thaliana

<220>
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 <222> (1)...(916)
 35 <223> n = A,T,C or G

<400> 430

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	taaaatcagt	cattgaaaat	cagaagacga	tgaagatggt	agatcaggat	cttcaaactt	180
	attaaacctt	ttccgagtcg	ctgcatcggt	gctaattgcta	atcccatgct	gctttctacc	240
	atacgagtct	tcgtttatgt	aatcttcata	ctcatcatca	acaacattca	catccatttt	300
	catgttcatg	tcttcttctt	cttctctctt	ttcttcgtat	tcatcatcac	tatgtaagct	360
	aaattcccc	ctacctacta	atttacttga	ttcgccgccg	ccatcaaaaat	catcaatcgg	420
45	agccatgaca	tcatcatcat	catagtcttc	atactgaaac	gatctccccg	agctgctagc	480
	ttctccgtca	tcgtcttgca	gttcaggggt	ttcgatccaa	tcgtcatcgt	tatcannaag	540
	actggttttg	gcggttacag	caacttcctt	aacccgacgt	cctcctccta	cttcattaca	600
	tataccgagt	gttccttgcg	ttggtctctt	tcggcctttg	gtgccactac	gccgccatt	660
	ctttctaccc	ccacgtgggt	gtgctctcgg	tctcaacatg	gtttcaccat	ttgagtttgc	720
50	tgcacctcgt	ggtgggttaa	cagaaactgc	cggtttcttg	ccattgccac	gggcacgagg	780
	ccggccacgt	cctcgtgggt	gtcgacctcc	tctcccagag	ctagacacac	cacctaaacc	840
	aggatccgtc	cagttctctt	cttgcttata	agcagcaact	tgcaccggag	tttccattac	900
	gtccttctca	tgtaag					916

55 <210> 431
 <211> 916

5 <212> DNA
<213> Arabidopsis thaliana

<220>

<221> misc_feature

10 <222> (1)...(916)

<223> n = A,T,C or G

<400> 431

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	caaaacacca	aacaaaaaac	agagaaagt	aaagcaagaa	cataaacgat	gatataaaaa	180
	ctacgatcct	cagcctcttt	cttcagtact	tgtaatcctt	aacgtgaagg	ctctcagctg	240
	caccttcacc	gagcttagca	tcacccttgt	aagcaccaag	tggtgcttca	gagttagctt	300
	tgcatctgac	caagaacgct	tcttgagcct	tcttcacatt	ctctctttt	cctccccaag	360
20	tcttcaaagt	gctctgctgc	aacgcccttc	caaaggagaa	agacaacgac	caaggcttct	420
	ttgtcttcaa	ctgggttcac	gcgttaaggt	ttcttgcgc	ctcttcctcg	ctctgtccac	480
	cagacaagaa	cactatggct	ggaacagcag	ctggaactgt	cctctgaaga	gcacggacag	540
	tgtgctcagc	aatcacctct	ggtgcaacct	tcgcactctc	tgatcctgga	gtaaccatgt	600
	taggtttcaa	gagtgttctt	tctagcaaga	catggtgatc	actcagagcc	ttgtagcaag	660
25	ctgcaagaac	acgctctgtc	accgnngcac	acttctgaat	gtcatgagag	ccatcaacaa	720
	gaatctcagg	ctccacaatc	ggcacaagac	cgttctcctg	acaaatgaca	gcatacctag	780
	ccaatccata	agcgttctca	tggatagcta	actgagatgg	ctcattaaca	ccaatcttaa	840
	gaaccgcagc	ccacttggcg	aaacgagcac	cagcctcgta	gtatttcttg	caacggtcac	900
	caagaccatc	aagacc					916

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<210> 432

<211> 916

<212> DNA

<213> Arabidopsis thaliana

35

<400> 432

40	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	ttttttcaaa	60
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	atcaaaccga	atcttctata	tacacataag	ctgtgaaaga	tcgagagatg	gtagaattaa	180
	aaagacgatt	ttaacctcat	caaatcggtg	gaggagctga	gccgtaggag	gagagaagct	240
	gaactaaaga	gttcatggct	ctcacttgca	tctccagagc	ctgaatataa	tcagttgctt	300
	cttctagaat	caccggtacg	gattgtttac	cgcaaccggg	aactaaccgg	cctagaacac	360
	gtactttccg	gttaacatcc	ggtatactct	tcttattcaa	tctcaacacc	gacactctcc	420
	gttttctcga	tctgttgctg	ctgctactaa	ccaccgtagt	catggccgga	atcgccatcg	480
45	tagctcgagg	acgtctctgt	ttacgaaatt	tcagtttgat	ccgattagct	aagatcgctc	540
	tgctccagag	tgttcttccc	cgagcggaaa	cggcaagagc	tcgatcggcg	gcttcacgga	600
	cggccttttc	tcgtttctga	gccgttgagg	atgatgatgt	tgaggcggaa	gagttgaggc	660
	ggacttggtg	gagcgcttgg	aacagtttgg	ctgagtagat	ccgttggtgc	ttctccgata	720
	gccatcgogc	gtgaatctca	ccggagacgg	aagatgcgct	tgaacgagac	gatgcggcgg	780
50	atgaagcaga	ggatctcttc	tttctccgaa	cgagatctga	agtagtactc	gtcggcggtt	840
	caatatctga	gatcagagac	gccataacca	aataattggc	tctgatctcc	gcagtcgtat	900
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55

<210> 433

<211> 916

<212> DNA

5 <213> Arabidopsis thaliana

<400> 433

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10	aggattgaca	acgcaggaag	gggaagacag	gattgtgata	tttggcccca	acaagctcga	180
	agagaagaag	gaaagcaaaa	ttctgaagtt	tctgggggtc	atgtggaatc	cgctttcatg	240
	ggttatggaa	gctgcagctc	tcatggccat	tgttttggct	aatggtgata	atcgacctcc	300
	ggattggcaa	gattttgttg	gtattatctg	tctgcttggt	atcaactcca	caatcagttt	360
	cattgaagaa	aacaacgccc	gaaatgctgc	agctgctctc	atggctggtc	ttgtccctaa	420
15	aaccaaggtt	cttagggatg	gaaaatggag	tgaacaagag	gctgctatcc	ttgtcccagg	480
	tgatattggt	agcattaaac	ttggagacat	tatcccagcc	gatgcccgtc	ttcttgaagg	540
	agatccttta	aaggttgatc	agtctgctct	aactggagag	tcccttcctg	tgaccaagca	600
	ccctgggtcaa	gaagttttct	ctggttcaac	ttgtaaacia	ggagaaatcg	aagcggttgt	660
	tatagccact	ggagttcaca	ccttcttttg	taaagctgct	caccttggtg	acagcactaa	720
20	ccaagttggg	cacttccaga	aagttcttac	atccattgga	aacttctgta	tctgttctat	780
	tgctattggt	atagcgattg	aaatagtcgt	catgtaccct	atccaacacc	gaaagtacag	840
	agatggaatt	gacaatctct	tggtcctctt	gatcggtggt	atccccattg	ctatgcccac	900
	ggtcttgtct	gtgact					916

25 <210> 434

<211> 915

<212> DNA

<213> Arabidopsis thaliana

30 <400> 434

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	aataggcagc	tatgttcac	atctctttcc	ttttccttta	gcatcaaagt	gatgagactt	180
	tagttttctc	ttccgcacta	tcgcgcctgt	gctgccacca	cctccttccc	tgaaaggcat	240
35	tcccattaga	gccaatagtt	tctgtccttc	ttgatcgctt	ttagccgttg	tgctgatgca	300
	tacatccatt	cctctcgttt	ttccaacggc	atcaaacctg	atttcaggga	atacaccttg	360
	gtctttcaca	ccaatactgt	agttttccgt	cccatcaaag	ctactgggac	tcacaccttg	420
	gaaatctcga	gttctcggaa	gggctaagtt	gataagacga	tccaagaagg	agtacattac	480
	atctcctctg	agagtgcag	caatcccaag	agggtgatct	tccttgatct	tgaaagtagc	540
40	aatggaagct	ctagctcgtg	tcttaatagg	tttctgccct	gtgataagcg	cgatatcctt	600
	catcgcagcc	tccaaaccct	tgtcgttctg	cgccgcacat	ccaataccac	aattcactac	660
	aatcttctgt	acctttggaa	cctggtgaat	attaacgtac	ttgaactcct	ctttgagcgc	720
	agggataatc	ctctcgaggt	aagcggtttt	gaggcggttg	gttttctcgg	cttcagattt	780
	ctcgaccagt	acagttccag	acgccgagac	tttcaccacg	tttctgagcg	gaggagagag	840
45	cattcgtgcg	gaggatggag	ccgctaattg	tgagaaacgt	ccgtgaaacg	aagaagcgga	900
	agactgcaga	agcga					915

<210> 435

<211> 915

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

55 <222> (1)...(915)

<223> n = A,T,C or G

5

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gcgaccacga ccagacatcc aaggcacagg gctggatgct cttgcatcgt gtgcattcag      180
10 ccaccaagtg ggaaaggtag gcacaagcct acatgtggct gcactgtgtg tagcacctgt      240
aagagaaggt tcaagacgct tatgatgagg aggaagaaga agcagttgga gcgcgatgta      300
acagcagcag aagataagaa gaagaaggac atggaactgg ctgagtctga taagagtaag      360
gaggagaagg aagtgaacac agcgagaata gacctgaaca gtgatccata caataaagaa      420
gatgttgaag ctggttgcggg ggagaaagaa gagagtcgaa aaagagcaat aggacagtgt      480
15 tcgggcgtgg tggctcaaga cgccagtgat gttttaggag ttacagagtt agaaggagag      540
ggtaagaatg ttcgtgaaga gccgagagtt tcaagctgat atggaaggaa aaaggggaaag      600
ggtaaannc aaagtcatag ccagttttat taatatgctg agaccaagag taggagaaga      660
agaagagaaa gagagagaga gagagagaga gagaagtaca gttttgtgtt tgattctgtc      720
atagttgtag gaaaaataag tttctggttc taaacagcga caatgtccca tcttttgnnn      780
20 tttgtttttg tttttgtatt tttatggtat cgtgttgagt ttgggggtta tagtatgtct      840
ccattaatct aggttttgtt gtagaaggca aatggagctt tgtgcttggt gatgaaacag      900
ttgagttgat ttttt                                     915

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25

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<210> 436
<211> 915
<212> DNA
<213> Arabidopsis thaliana

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30

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<220>
<221> misc_feature
<222> (1)...(915)
<223> n = A,T,C or G

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35

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<400> 436
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ccacgcattg ttagcaacag ggttgtcaag atggtcaagg agattctcca aaggaccttt      180
tccagtaaca atggcttgaa caaagaagcc aaacatagag aacatagcca atcttccgtt      240
cttgatctct ttcaccttaa gctcagcaaa agtaactgga tcatcagcga gaccaacgg      300
40 gtcaaagtat tgcccaccgg ggtacaagtc gttgccttcg ccaacacccat caagaccgtt      360
gatgcggaaa ctttcaacca aacccatgag gatgacttgg aagccaagga cggctaaaat      420
gctctgagca tggactaggt ttgggttgcc taagtagtcc aaaccgcctt cggagaagat      480
ttgtgaaccg gctttgaacc agactggttc tttgaagtcc acacggaccc acttttgaag      540
aacttcaggg gttatgcaac caaaagctcc caacattgcc catctcccat ggatcacctc      600
45 aagagctctg tttttggcaa gggcttcagg gnnngcggat aaaccngcgg tgtcccaacc      660
ataatcgcca gggaattctc cggtgaggta agacggagtt tgaacggaaa agggtcctaa      720
gtacttcact ctgtcaggtc cataccaaag atcatttccc atagtgtact tgggagatcc      780
gagagagaca acatcacgaa ggggggttaa gcttgaggct ttagtctggc caaggaatgt      840
tgttggggta agaacactgc ttgagctcgt gaatgttgat gccattgtct ctctcggett      900
50 gagcttttct ttttt                                     915

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55

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<210> 437
<211> 914
<212> DNA
<213> Arabidopsis thaliana

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5 <400> 437
ccacgcgtcc gcttcttctt cttcttcctc tctgtttttt ctctctcttt gtttggaacc 60
accatggata atgtcaaact tgtaagaat ggtgttttga gattgccacc tggattcaga 120
ttccatccta ctgatgaaga acttggtggtt caatacctta agaggaaagt ttgttcttct 180
cctttgccag cttcaatcat ccctgagttt gatgtttgca gagctgatcc ttgggattta 240
10 cctggcaatt tggagaaaga gaggtacttc tttagcaciaa gggaaagctaa atacccaaat 300
gggaaccggg ctaaccgggc aactgggtct gggtattgga aagctaccgg tattgataaa 360
cgggttgtag cctctagagg aaatcaaate gttggtttga agaaaactct tgtcttctac 420
aaaggcaaac cacctcatgg ctcaagaacc gattggatca tgcacgaata tcgcctctct 480
tcttctctct cgagttctat ggggtccact cagaactggg tactctgtcg tatcttcttg 540
15 aagaaaagag ccggttaacia gaacgacgac gacgacggag atagccgtaa tcttagacat 600
aataataata acaattcgag tgaccaaatt gagataatta caacagacca aacagatgat 660
aaaacaaaac caatcttctt tgatttcatg agaaaagaaa gaacaacaga tttgaacctt 720
ttgccgagct ctcttcttct cgatcatgct tcaagtggag tcacgacgga gatcttctct 780
tcttccgatg aagagaccag tagttgcaat agtttcagat gaaatcttta atttaatttt 840
20 aatgttgact atcttaataa gttattatag ttttatatta atacgactct ctttcctttt 900
taaaaaaaaa aaaa 914

<210> 438

<211> 914

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

30 <222> (1)...(914)

<223> n = A,T,C or G

<400> 438

35 acaatggctc tctctctccc tgccttcgcc ggaaaggctg tgaacctttc ccccgcgcca 60
tctgaagtc tgggaagcgg ccgtgtgaca atgaggaaga ctgttgccaa gccaaagggt 120
ccatcaggca gccatggta cggatccgac cgagtcaagt acttgggtcc attctctggc 180
gagtcaccga gctaccttac cggagagttc cccggagact acggatggga caccgctgga 240
ctttcagctg atcccagac attcgcaagg aaccgtgagc tagaagttat ccacagcagg 300
tgggctatgc tcggagccct aggctgcgtc ttccctgagc ttttggctag gaacggagtc 360
40 aagttcggag aggcggtttg gttcaaggcc gggtcacaga tctttagcga tggaggactc 420
gattacttgg gaaaccctag cttgggtccac gctcagagca ttttggccat ttgggccact 480
caagttatct tgatgggagc tgttgaaggc tacagagtcg caggaaatgg gccgttggga 540
gaggccgagg acttgcttta ccccggtggc agcttcgacc cattgggtct tgctaccgac 600
ccagaggctt tcgcgagatt gaaggtgaag gagctcaaga acggaagatt ggctatgttc 660
45 tctatgtttg gattcttcgt tcaagccatt gtcactggta agggaccgat agagaacctt 720
gctgaccatt tggccgatcc agtcaacaac aacgcatggg ccttcgcaac caactttgtt 780
cccggaaagt gagccaagtt ttatcagttt gtattttgct tnnctttcag tcttttgaat 840
tcgagtgaga gacatgagga gaaagagaag gttgtatgtg atgggttgag actttcagat 900
gtaaatttgc aaga 914

50

<210> 439

<211> 914

<212> DNA

<213> Arabidopsis thaliana

55

<400> 439

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5  gtttcacttc tcataggtta ttcttacagg aagtttcaac atctttctgt aaataagaaa      60
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   catcctaata ataaagtaaa caaataaatt tgttgggtact atagtcacaa acggttactc      180
   ttcaacttgg taccaggaaa tgtaactagg tgtttcagtg tgcaggcatt atttcttacg      240
   gaatgctcat cactactata gctttaggct ttatctggca ggagggtggag ggccaagggg      300
10  ttttgccatg ccaacccaag caacaatccc acaagcgaga attatccaac cgcatacatc      360
   ataagtgaat tcagtgttcc tcttcttctt cttactactc tggctaacat tagatgaagc      420
   cattcctcct ccacctcctc ctctcctcct acctagtatt tgctgtccca ttccttgatt      480
   cataaactgc atatgcagtt ccggggcctt tagtgaggaa tccaaggact tgcgatatgt      540
   gtcattacct ggatcctcat tttctgctct ctggaaatat tcagtggctt tatcaaagtg      600
15  ctcttttgc tcttcaggat cgtgaacata aaacgcgtgg gcggtgtacg cgttggcaat      660
   acaccaaaaga gcctgatgct tccctggatt tattgtcaag gcctcttcca acttggaaat      720
   agcatcattt aacatgagct tagcttcagg aataggctgg aactgtgaaa gttcaagtaa      780
   agctccaccc catttcagca gattctcgga atcaagagga tcgttcttgt actgagcctc      840
   agaatttttg cgagcatgtt cgaacatgat aaacctttca aagtcggcgg tagagaactc      900
20  catcttcaga ttca                                     914

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<210> 440

<211> 914

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(914)

30 <223> n = A,T,C or G

<400> 440

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   ttaaaagaga tacatcttag aggacagaaa gaaacaattt ttgnmntcaa taatacatta      120
35  ttgaaacgat ttttgggat caataatata ttaatgatta gctaataagg tatgtgacgt      180
   gcatagcaca gtttcaaaca catttaattc aacaatgggt gctcgtcgct agcgactggg      240
   acatgtggac ggtcaatgag gacattctcg tagatgaaac cggcgagtcc accaccgatc      300
   aacggtccaa cccaatatac ccaatggtca gtccagtttc cagagaccaa agcgggacca      360
   aaagaccggg cgggggttcat ggaggcgcca gaaaaggcac ctcttgcaag gatgttggct      420
40  ccaacgacaa atcctgtgag aagtgggccc aacctatcaa gggatccttt ctccgatcc      480
   acaatagtgg cgtagacagt gaagagaagt gaaaatgtta agatgatctc ccatatgatc      540
   ccttgcggtg aactcactcc acttgccaat gtgtgaaccg gagttcccat tcctccggtg      600
   aggtaactga ggaggaagca tgctgcggag gaggccaaca attgatcaat ccaataaagg      660
   aatgcacgga atacgctgat gtggccaccc aagagtagac cgaggggtgac ggcgggggtt      720
45  aggtggccac cggagatatg gccnnngat atcattaccg ccacnnngaa tgcgatgagc      780
   accgcgaccg cgaaaagtcc caccaatgtg tttccgacta aactgtcagt ggccatggca      840
   gatccaacac cagcgaagac aaagagaaag gtagtgatga attcgacaat gagggcttta      900
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50 <210> 441

<211> 913

<212> DNA

<213> Arabidopsis thaliana

55 <220>

<221> misc_feature

5 <222> (1)...(913)
 <223> n = A,T,C or G

<400> 441

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10	ggaactagag	tttgctttac	acaatgtaga	ggaagagcag	aaggagaagc	tattgttatg	120
	gcacagcgag	aagtttagctg	ttgcctttgg	ttgcataaaa	ctccctgaag	gttcaccaat	180
	acaagtgttc	aagaatttga	gaatctgtgg	tgattgtcat	aaagcaatca	aattttatttc	240
	ggagatagag	aaacgagaga	tcattgtaag	agacaccaca	aggtttcacc	atttcaaaga	300
	tgggtcttgc	tcttgtggcg	attactgggtg	aaaagagaag	agctttgact	ctctcattgg	360
15	tcaaacctga	ctgtatttat	atgcgttatt	gtgtggtaaa	gtttcgacct	ttgactttac	420
	aagttggcgt	taagaagaga	gatgcgtaga	tcagcgagtg	gttctagatt	tttggatcat	480
	tttccggcga	cttcaaggtc	tccgcctcga	tctcagagtg	ttacagctat	ggaagatgat	540
	gtggagctgc	ttttgcctag	gtacgatccg	aattcacaag	cggggaagag	agagaagtca	600
	agattcagat	ttgcagaaaa	cgncnnncat	ttgattcctc	tcattcttct	tctctgtgtt	660
20	nnnatnctct	ggctctcctc	ttattcagca	gcgttaagga	gttgagttca	agaagcaaca	720
	tgttgtcttg	tctccatgga	aactcatcat	attcagtttt	gggaaaggaa	acaattattt	780
	taccgccggt	gattatgtgc	cgcaaaccat	acgtaactct	tgtaattttt	ggttctgtag	840
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25 <210> 442
 <211> 913
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 442

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	ctcaccaccg	caaagggtccg	gctaagtcc	gtagcctcga	tttcggcgag	agaaatgggt	120
	acctcaaggg	cgctcgtgacg	gagatcatcc	acgatcctgg	tcgtgggtgct	cctcttgctc	180
35	gtgtcacttt	ccgtcatcct	ttccgtttca	agaaacaaaa	ggagctcttc	gtcgccgccg	240
	aagggtatgta	caccggtcag	ttcttgtact	gcggtaagaa	agctactctc	gtcgttggaa	300
	atgtttctccc	tcttagatct	attcctgaag	gagctgttgt	ctgcaacgct	gagcatcacg	360
	tcgggtgatcg	tggtgtcctc	gctagagctt	ctgggtgatta	cgccattggt	atcgctcaca	420
	accctgacag	cgacactact	aggattaagt	tgccatcggg	ttcgaagaag	attgtcccaa	480
40	gtggatgcag	ggctatgatt	ggacaagttg	ctggaggtgg	aagaactgag	aagccgatgc	540
	tcaaggcagg	aaacgcgtac	cacaagtacc	gtgtgaagag	gaactcatgg	cctaaggttc	600
	gtgggtgtggc	tatgaatcca	gtggagcatc	ctcatggagg	aggtaacat	cagcacattg	660
	gtcacgccag	tactgttagg	cgtgatgcac	ctcctggaca	gaagggttgg	cttattgctg	720
	caaggaggac	tggtcgtctc	agagggtcaag	ctgctgcttc	agctgccaa	gcagactaga	780
45	gttaaaagag	ataaaccttg	tttctcttgt	tttctatgtt	tcaagttttg	ttgtctgtgt	840
	ttccttttga	acctcattct	gaaatcctaa	aagattttta	tgataaacct	ttctctcttc	900
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50 <210> 443
 <211> 912
 <212> DNA
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<220>
 55 <221> misc_feature
 <222> (1)...(912)

5 <223> n = A,T,C or G

<400> 443

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10 ctccctcgggc acctcctccg agaccactga tcagaattgg gttaccggaa ctctagcggg      180
tatgggtagt atcaccactt gggcagggtt cttcattcta caatcgttca cggtgaaaaa      240
atatccggct gagcttttcg tagtgatgtg gatttgtgcc atgggaacgg tcttaaacac      300
catcgcttcg ctcataatgg tgcgcgacgt aagcgcacgg aaagtcggta tggactcggg      360
cacacttgcg gctgtttact ccggagtggg ttgttcgggt atggcgtatt acatacaaag      420
15 cattgtgatt agggaacgag gtccgggttt tacgacatcg tttagtccta tgtgcatgat      480
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cggnnccgann nttatcgtct tcgggctata tagcgttgtg tgggggaaaag ctaaggacga      600
agtgatatcg gtggaagaga aaataggaat gcaggagctg ccgatcacca acacatcgac      660
aaaagtggag ggtggtggta ttaccagtga agtaaacgaa ggtgtgacta acaataacca      720
20 agtghtaacc caataaagca attaaagaga atttttgaag accaaatttc caagaaagga      780
aatttgtttg tctttcttgt ttgtnttatg ctgtttacat tttcaagtta tctgtgttga      840
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25 <210> 444

<211> 911

<212> DNA

<213> Arabidopsis thaliana

30 <220>

<221> misc_feature

<222> (1)...(911)

<223> n = A,T,C or G

35 <400> 444

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aataaattat atgtatttgt atgtgtttgt agaatgatac aataaaaatt taaccgaagt      180
agttgtttct actttcaatg ttgccgtatt ctaagtctct tgtggttggt tgagagaaaa      240
40 cacaagaaga tggagaagga ggatgagccg ttgtagggtg tgggtggagt gttggtcttt      300
gtggtggtgg tgcaatcacg gaaacaccgc cggagttgtg aaatccggca acttgggagt      360
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45 ggcactctgct ctctggctcn caggtaacttc cattagcatc ttggagacgt tactagctcc      600
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gggacattct tgagcacatc tacggcgcaa aagcttgcag gcagcacaag gcgtaattgt      720
attgaggggt ccgggaggac ccgacattgg tcttctaatt ccagccattt gatgaggcca      780
agcatctgct tctcttttga tcttcttccc tatctcttca aatctctccc tttctcttga      840
50 cattcaggca tgctctcagc gaatcgcaaa gagaaaaagaa aagaaaaaac agagaaaaagg      900
agaaagaaac a                                     912
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<210> 445

<211> 911

55 <212> DNA

<213> Arabidopsis thaliana


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5      <220>
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      <223> n = A,T,C or G

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      ccaagtaata gtaaaacaga cacaactat atattggaaca tgtggacaat gaaactagtt      180
15     cgcctttcct tgtttccctt ttatcagacc atcttgact tgggatgtga cggcaatagc      240
      tgataacaag agataagtga tgaggcgaat ccgaaagcac ctgtgactcg ggnnntgact      300
      ttctttgggg ccaattgaag caatccgaaa gcaacaacta catccatccc tgctttgatc      360
      agagccaatg acctctcggt tgatttctct acttttgcac ggtattgtct attctggtgt      420
      ttatccttgt tccctatctc tttttctaac ttcttaattg atgctgacag cctaccaagc      480
20     tccccaacct caaccaagga tgtgcaaacc gaagaacca tccaacagaa aagtgatata      540
      cgtccaagaa tctcagcacg ttctttgtcc ttgtaaatcc cagtcctgcc aagccacaca      600
      atttgatcta ggaacaagaa cgttgacagc aacgcgtttt tagactttcc gagcagaaca      660
      agcgggagtg gagtcccttt gggaacaggg ctaatgagag catgaagatc atttacaac      720
      ttgaagagac ggaaaacttt cctagccaag ctggtgttct tgtcgacatt ttgagcagtg      780
25     ccagggttggc catcactcaa gaacttgaa ccatattgaa tagctcgaca aatcttgtct      840
      ctgcctccg ctttattcaa atacacaact accagaccaa gtcagctct tgtggtctca      900
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      <210> 446
      <211> 910
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30     <220>
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      <223> n = A,T,C or G

      <400> 446
40     tatataaata gtcacaaacc aacagagaaa aatacactgg aaacaaaatg atacgagggc      60
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      gcttgtttca gatgaagcgt cagagcatag ttattcacct cttaaagtct caactgttcc      180
      tggatttgag tgactagctg cctcagatgc tgcaattcct gactttgggtc ttccgattct      240
      ctttgccgct tctgctgtgt cactaccgct cgtttcagta aactgttttc ctgtacaata      300
45     gcttctaatt gctgcttcag catcatgttt tcctgttgga gattttgcat tgcgtcagta      360
      ccagtacgtg cattaattga cttctccaaa gcttnnaatg ctcttgacgc acgggctttg      420
      gcgtctttca tgtcagaagc attcatcatt tccctaacia aaagctcaac ccactctgta      480
      ccatccaagt tcaagacatt tggttcctcc ttggtgatc cttgctgttg aggttcaaca      540
      tttggttcct ggattacaac aggagattgg ttgtagcag aatcagaatt cttattggca      600
50     gattctaaac gaagctgatt caaacatcta atggtgaat caaggctatc tccacattcc      660
      tcgattgccc tctcaagaat ctgcttatcc atatcgggga aaatcgcggc gaggtgatcg      720
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      aagcaacgga gtttcttgga gacgggagga gaagcggcgg ctaagtcttc gaacagagat      840
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55     gatctctcaa                                                    910

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5  <210> 447
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10 <220>
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   <223> n = A,T,C or G

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   atctagggat gtcaaggcaa actcgtttta tagcttaggt gtatgaacat tctgtttatt      180
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   tgtctccgag attttttact ttcccttgaa catctgaaaa cagagatcgt tgagagccaa      360
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   ggattgaagc tctctccctt aacacntgca cacctgggtga cactactacca gaagccttat      480
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   ctagtttttg agtaaccgat gttgtgggtg cagcagatgc agcacatcta ctcatggaat      660
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   <210> 448
   <211> 910
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40 <222> (1)...(910)
   <223> n = A,T,C or G

   <400> 448
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   tgagttgggt acagattcag acaaagtact tttgaacttg ctttcatatc ctctacacgc      180
   tacattggct agccctgaag ctaagcctgc tgtggaagac aaacttcatg aagtagcagc      240
   cagcctcata gctgcttatg acagcggaga gattccaagc gctttagaag aaggacaagg      300
   tgcttggcag aaatgggtga aagcctttgg caaatccttg aaacgcaaag ttagtcatct      360
50 tctaatgca gttaataccg aaacaaaatc tactttactt gagtgaacaa accttacaag      420
   agattcttct gatgctggtt acagggtaaa tcacttttca tgccactacg agtgttggtta      480
   acgggaaaac tccatggtcc tgagatgggc accagtattg ttctgattta caaagctgga      540
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   cttagggaga tagactggga agctttgaac aaagatgaga gtgtgcctct tgaatctaca      660
55 gccacagtat caacctgaga aaactcccct tttttttttt ttttccttca atatttggtt      720
   agttgggtgag agaaagacag cccagagatt ttgattcctc gtgcatttct tgtttcccg      780

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5 aacaaatggc acaaagaaat ttgtagatta taatgtatca gcaaagcaaa cttaggaaca 840
aaccagagag cttgtaacat tatcaggcca gttttaattt gctttcaatg ctctgttttc 900
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<210> 449

10 <211> 910

<212> DNA

<213> Arabidopsis thaliana

<220>

15 <221> misc_feature

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<223> n = A,T,C or G

<400> 449

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25 cgagtccatc ttgaacattc cagctccaaa tgtgtagcct attggtacaa atagcatccc 360
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<210> 450

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40 <213> Arabidopsis thaliana

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45 <223> n = A,T,C or G

<400> 450

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50 tcgacttttg tctatctata cggatgattt gttctcatcg aaatggttgg aaatggattg 180
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	gctctctcaa	cttcacagaag	ctatagggaa	cttgagtaga	ctagaagtgt	tgaggatgtg	660
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	gaaactggag	aatatctcga	tgaggaagtg	ttcgggatgc	gagttgccgg	attcagtgan	840
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<211> 909

15 <212> DNA

<213> Arabidopsis thaliana

<400> 451

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	ctcaacatac	acatacacac	acattcacac	gtaaagatta	cttctgcttt	cagttagttc	180
	cttggcttat	taaaccaaga	tttctcttga	tcacatgcc	ttttccaagc	ctctctactc	240
	gtaatctcat	ccaccactt	acgcacttta	gatctttttt	cgaacaattt	cttcggttga	300
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25	caagccaaga	atctagattc	ttcgagtcgt	ttctcgtaga	tatttagaac	tttctctaga	420
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<210> 452

<211> 909

<212> DNA

<213> Arabidopsis thaliana

40

<400> 452

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	tacatcaaac	ttcaaatact	aatacaaaaa	caaaaagaac	atcactagag	atggatctct	180
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<210> 453

<211> 909

10 <212> DNA

<213> Arabidopsis thaliana

<400> 453

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30

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<211> 908

<212> DNA

<213> Arabidopsis thaliana

35

<400> 454

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40 aagaaaaaaa aacgaaattt aaaactctat aaaagcagat aaatgtaaga aactccatct 240
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5 <213> Arabidopsis thaliana

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<211> 908

<212> DNA

<213> Arabidopsis thaliana

30 <400> 456

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35	atagtcgaag	atgctactac	tgagaatcta	gaggaacctg	actgggatat	gaatttgga	300
	atttgtgata	tgataaatca	agagacaatt	aatagcggtg	agttgatccg	tgggtataaa	360
	aagaggatta	tgatgaagca	gccgaggatt	cagtaccttg	ccttggtttt	gctcgagacg	420
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	acttataaga	gcttaaaagc	aagagggtatt	cgcttccctg	gacgagacaa	cgaaagcttg	660
	gcacctatct	tactcctgc	tcgggtcaact	ccagcaccag	aactgaatgc	tgatcttcct	720
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	gagcagacaa	aggaagcttt	tgatatagca	agaaacagca	ttgaacttct	ttccacgggt	840
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<211> 907

50 <212> DNA

<213> Arabidopsis thaliana

<400> 457

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	ccgattctgt agccttcaat gaaccccatg agcacaactt gaacagccca gatggctaag	420
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	ctgctagatg acgccattga tttttaacaa gaaaagttac aagaagacaa aaaaaggaca	840
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 <223> n = A,T,C or G

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	ttcatctata tgcagaaaac cttatcata ttcaattgat atggctacag atttcacttc	180
	acatggtagt tccaacatca tctccatcat gccagatgac accttatccg tagatggtga	240

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20 <212> DNA

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<400> 460

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40 <210> 461

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<212> DNA

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<223> n = A,T,C or G

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15 cgga 904

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cttagtaaaa tttctactac ttgtaaaatc aagtaatctt aaagaaaaag atgtattgta 840
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aaaa 904

45 <210> 463
<211> 903
<212> DNA
<213> Arabidopsis thaliana

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55 aagtagatga atttcgagag agagtgcgag gcttaaggga gtttagtaga agtgccata 300
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5  ccgtcataac gggttttctct gtctcttctt cctttacttc ttcctcgtcg tagaattttt 420
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45 a

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50 <213> Arabidopsis thaliana

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	atgatgggtgc	catgccataa	tttcctggaa	aacccaaaagc	agaagagcca	gcagggattc	540
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	gctgggtccac	agttgatgga	taggggtggca	attgcatgct	tgtgctaggc	tgtagaatct	840
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<211> 899

<212> DNA

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<223> n = A,T,C or G

55

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	gtttccaaat	tttggtacat	tcgaacgtgc	catgggagag	aggtagctaa	agaattgaag	840
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<211> 898

<212> DNA

<213> Arabidopsis thaliana

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	gaggggggac	aagctgttcc	atttggccgg	ttagttggga	gaggtaccct	tccattgctc	360
	atactaacgt	tagttacgaa	ttgacaaaca	gcgcattcga	cggatgatgc	accgtaagga	420
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	gccatgtcgt	gaggtggagg	aggaggagga	accatgttga	tagtgttaca	taacgcacaa	660
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<211> 898

<212> DNA

<213> Arabidopsis thaliana

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	ttaatatcaa	cggccagctt	caatgtccaa	tggtgttaca	tttctgatgc	tgatcatagc	180
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<211> 898

15 <212> DNA

<213> Arabidopsis thaliana

<400> 474

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	aggaaaagca	aaaataaata	atgatttgag	aatgagagaa	agagaattta	aaaccaatct	240
	aaaccgggct	atcagagctt	ctgatcatct	ccggcgagga	ggctctgtta	ccagaaccag	300
	gaccggaccc	tgaaggtcga	atctcctcca	tcagtgttaac	cacttcctcc	attgaaggcc	360
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<223> n = A,T,C or G

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	catctaagga	ttatgccctg	taaccttata	cttcacgaat	acaattttatc	gacaaaaaga	420
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 35 <213> Arabidopsis thaliana

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5 <213> Arabidopsis thaliana

<400> 478

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25 <211> 896

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<223> n = A,T,C or G

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<211> 895

<212> DNA

<213> Arabidopsis thaliana

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 <223> n = A,T,C or G

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 15 ccgaggatag aacaaaacta tgcgatgtc taaactacaa gaaattgaca ttggacacat 360
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 cacaacaatt atcaaacgag actcgaccac actcaagaga ggacaagaac aaagtaaaca 480
 agatctggaa ttcacgtaag tacttagaag agaaaccaat actggtgtgt ttgaaagggt 540
 ttgatatgtc ggagaagttt gaagatgatc taatgatgaa tttnnagagg aagcaatgga 600
 20 ataattctga aaaagttagt aaggagaaga agagtgaagt aatgtcaaga tctgtgagac 660
 atggacatac acattcaagt tctagttttc caaggctttg ttaaataatt aattcactcg 720
 tcatnnnttt cttattttctc tagatataga tttttatgtc atcatatcat catcacacac 780
 atgcacgtct cgtgtatatt ataagctttt tcatgcaaaa tgtattttac gtagttttga 840
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 <211> 895
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 481
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 aagggagaat gagtcatgca tatttagatc caacgattat aagaagacat aacgaacagc 180
 35 tgagggaactg ctaatgctct gtctcaatca ggatgtgcag tttaggaatg caagtctact 240
 aaccttgcac tacatatgat cttctagcga gccacatcat aagcctgggtc tgcacgtac 300
 tgatttgagc gacaatgata tcaactgtgct gttcctggag cagctgcata gccagctgat 360
 tgagttgctg attgctcata gccggcctga ggaggtgcag tctgggaata agcgggtttgg 420
 ccagtaggtg cagcatatgc tgatgcgttt ccacctccat agctaggata ctgagagcca 480
 40 atgtatccat agtttccatt gctttgagcc ggggtattac cataagccgg ctgtgtggag 540
 ggatacgaac tatagccacc ggttggaggt acttgcctgt acccacctga agtttgttgc 600
 acaccagaag ctggctgagc accgtgctgc tcataagctg gggcaactgc tgggtggtgt 660
 gtaccattat aaccatcaga tgggtgctgca gagctatatg aaggataagt ttgctgagta 720
 ggcgcacttg atgcataacc atattgctgt tgttgagcca tgtttgaacc atacgatggt 780
 45 gctgctggag ttgaaccata cgatgctgct gctggtgttg aaccatatga cgggtgctgct 840
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<210> 482
 <211> 895
 <212> DNA
 <213> Arabidopsis thaliana

<400> 482
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 aagataacaa gagacaaaag gaaaatttgc agtgttctca tgaattggtt caaccaagga 180

5	tggggaagat	gcgggcaatg	tgttccaagg	gaacattctc	acctgtat	ttcttgagct	240
	ccggatgggt	aaattcattt	tgtggtgaaga	caatacttcc	accctctttc	tcaacaatcc	300
	atccactggt	agtcacttgc	tgctcgatga	atgtgtctag	agatgcacca	tccatgttaa	360
	cagcctcagc	cagcactgat	cttggaaacct	tttggttagct	taagctaaga	agggtgacttg	420
	catatgcttg	aatagcttgc	tcaaaacctg	gaacagcctc	gagaatgtga	cgggttcttgg	480
10	cagcttcata	ccagaactgt	tggaaacctcc	cagtctcaag	gtagtgtgat	agaacaatta	540
	gtgacttgaa	ctgctcctcc	atgtgcactc	tttcgggaat	caagaagagg	caaaggctga	600
	agtctggagt	tggcatagcc	ataagagcct	tgaccaagat	tcgagccacg	atatgagtgt	660
	tcatgcgctc	aggctcaaac	tgatagagcc	gaagcaagca	taggtttact	tccagactat	720
	acgtttgcga	tgtaacgtta	acgtagtttt	cgagatcagg	caggatttca	gggttgaaaag	780
15	gattaagggc	gacgagctgc	tcaacggtgt	aagagctctg	ttcctgcggc	gattggatct	840
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<210> 483

<211> 895

20 <212> DNA

<213> Arabidopsis thaliana

<400> 483

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	agtcctcaaa	tgaattggta	aaggaaagct	ttaatctcat	caatataagg	agactttgta	180
	ggaatgatgt	ggccaaaatc	gtgctcaaca	atgggtggcg	aaccatcttc	aaacaacccc	240
	gccaggctctg	agctggcttg	agtcacaatt	tgtctgtctt	ttccaggctg	acttccgaat	300
	atgtgaagtg	aagggcattt	aatcgatcgt	ttctccttca	tctccaacaa	tggccacggg	360
30	gtgaaacccg	agcacaacac	gcagaatctg	aagtctat	cacctacgag	ctgctcctgt	420
	ttcccacata	cagccgcagc	cattgctgca	ccttgagaga	atccgagaat	gccatcaaaa	480
	ggccctttct	cttcaaagtc	cgtcttcaag	tatgtcaacg	atttatcaaa	cccttcagtt	540
	tgagtctgat	actgcaatgg	atcgaactgg	cattggggcca	ctgtccagcc	tgtttcactc	600
	ggttttatcaa	aatctgatga	caccaaccac	gcaaaactct	tattgcatgc	tccggatgga	660
35	ggggtagcag	tttggttagat	gaactgtaat	tcgtgtgggtg	catcgatgaa	cacaagctcg	720
	gcaatattct	tcagtttctt	tgctagtgat	cgggtcctcc	ctttaaagct	agacgcgttc	780
	tgcctaaatc	catgcaagca	caagatcctc	agcttccgtc	ttgtattgtc	accattgctt	840
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40 <210> 484

<211> 894

<212> DNA

<213> Arabidopsis thaliana

45 <220>

<221> misc_feature

<222> (1)...(894)

<223> n = A,T,C or G

50 <400> 484

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	tccgggggaa	acaaatanna	aaactcagga	gagttattta	agataagcaa	annangatac	180
	atcttaaaact	gatgccattt	cgttttttcag	tttcatgtag	acacaacctt	cttcaccact	240
55	tttgtaacct	cttcgggggc	cttctctgcc	ggtatgttca	ccagattctc	cttcttcgca	300
	taatagtcaa	ttaccgggtg	cgtctgcttg	tggaaatgcat	ctagccttga	tctaagaaca	360

5 tccgcattgt catcttttacg ttgaatcaat ggctctccag tcagatcatc gactcctgga 420
acttttaggag gtgcgaattht agtatgatag cttcttccac ttgaagggtg aatccacctt 480
ccagtaattc tttcttcogag aaccgaatca tcgatcgcaa aattaagcac cttatctatc 540
tgagctcccc ttctattaag catctcatca agcttctctg cttgagtcac agtccgcggg 600
aaccatcaa gaatgaaacc tttctgacat ttgggtctgt tcattgcttc atccatgata 660
10 ccaacaacca agtcatcaga aacaagctct cccttatcca ttgcttcctt tgccttcaca 720
ccnagaggag tcttagcagc aacagcagct cnnngcatgt cannagtaga caaatgacac 780
aaacaaaact catcctttat gaccggagac tgtgtacctt tccctgaacc aggtggaccg 840
atgaaaacga gacgtttgtc aggttttagag gcacatttca tacggcgaag aagc 894

15 <210> 485
<211> 894
<212> DNA
<213> Arabidopsis thaliana

20 <220>
<221> misc_feature
<222> (1)...(894)
<223> n = A,T,C or G

25 <400> 485
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gtttccggtta ctagtgactc ttaccatcgc cgtcatgtct tccgtgaaca tcgctcgnnc 180
tgaaaaatca ttctcctaga cttttttttt ttcnnttct ctttgnnatt attattcttt 240
30 gcttcgthtt tgnnaagaag atgatccgcn gatttcagaa gttttcttct tctggthttt 300
agctgagagg ttttggtaga ttctgtthnt tcttcttct ctgtgntttt cgaatcnagt 360
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agcagagtgt atatgaaac aaatctgtga aaatttcttt gaatttgaat tgactttgga 480
cttgtagagc aagtttagatc ttcttcttcg tgagctatgc catttacgat gaagatccaa 540
35 ccgattgata tcgattcttc accaaccgta gctagagctg aatcaggaaa caaacgggtg 600
ctcaaattct gtctcaaacg tttgtttgat cggccgthta caaacgtatt gagaaactca 660
acaactacaa ccaccgagaa accattcgth gtcaccgggt gtgaagthta atgcccggga 720
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gaagaaaaca acgagaaaaca agctaaatgt ggacgtaatc gthtgtaattg cthtaacggc 840
40 aacaacgatg gthcttccga tgatgaatca gatctattcg gtggttcaat cgac 894

<210> 486
<211> 894
<212> DNA

45 <213> Arabidopsis thaliana

<400> 486
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50 attgattggt atcctggaaa atgcttaact cagaagattc ttaagaagaa gcctaagaaa 180
ggtgcaaaga atgccaaacc aattacaaa actgaagatt gtgaaagctt cttcaacttc 240
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cttcagaatc tgatggaaca agattatgac attggttcta caatccggga gaagatcata 360
cctcatgctg tctcatggtt tactggtgag gctattgagg gagaggagth tgaaatagac 420
55 aatgacgatg aagatgatat cgatgaggat gaagatgagg atgaagaaga tgaagacgaa 480
gatgaggaag aagacgacga agatgaggag gaagaagtaa gcaagaccaa aaagaagcca 540

5 tcagtcttac acaagaaagg agggagacct caggttaccg atgatcaaca aggagagagg 600
 cctcctgaat gcaaacaaca gtaaacaaaa tcgaaaagtc taaacgaaaa ccagtaaaaag 660
 aaaaacaaat gttttggggt ttgagtgaag tttcatggcc tagttttttg cttccatgta 720
 aggcaaaatg ttttgaagac tgctcatagg aatgttgctg taggcaaaag agtgagtttc 780
 tccatgtgga gatacttgat aaattatatt tggtgcattt gttttttttt ttttttaatc 840
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<210> 487

<211> 894

<212> DNA

15 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1) ... (894)

20 <223> n = A,T,C or G

<400> 487

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 25 taaactttca attaagtaga gcagcaacct cttttgccag ctccagatgt gtcttcaacg 180
 ttaatcggtg ttccttgccc cggaatggca gaattagcag ccgctgcttc ttgagcagcc 240
 aaagcttttt tgctgatgat gtggtaaatc tctgctaaca cggtttgaaa tgctttctcc 300
 acattgggtg cttcaagagc agatgtctcc aagaaagaga gaccttctgt ctcagctaga 360
 gtctgtccat ctccctccgc aactgatctc aagtggttta gatcagcttt gttcccagcc 420
 30 atcatgatca caatgttgga atccgcacgg tctcttagtt cagctagcca cctcagaaca 480
 ttgtcaaagg tttgtctttt agtgatgtca tagacaagaa gtgcacctac cgctcctctg 540
 taataagcac ttgtgatagc tctgtaccgc tcttgacctg cagtgtccca tatctgggcc 600
 ttaacagtct ttccttcaac ctgaagagtt ctggtggcga attcaacacc aatagtggac 660
 ttagattcca aacaaaactc attccnngtg aatctagaca agatgtttgt tttcccagca 720
 35 ccagaatcac caatcaacac gatcttgaac aaataatcat aatcctgttc taccctatgc 780
 gccatttttc ctctttgatc tcaccttttg ttttttttcc tggaaaaatg gcggatgaat 840
 cgtgaaaacg aatttcaatt gaccctcttc agatctgttg aaaggatgaa actt 894

<210> 488

40 <211> 894

<212> DNA

<213> Arabidopsis thaliana

<400> 488

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 agaggaaaga agatgaccat tgaaaacaaa tagtgtatcg atgagcggct tttctatcca 180
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5 gaagcatctg gagtcgcacc aagaggtgag tccgctccca gcataccgag tccaccaagg 780
 cctccaagcc caccaagacc accaagtcca gcatttgtcc ttccaggggc agttgtctgg 840
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<210> 489

10 <211> 893

<212> DNA

<213> Arabidopsis thaliana

<400> 489

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 aaaggagaaa attgtagttt cagaaagagt agtctttcaa atctgctcta gagtcgtcca 180
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 20 cgaacgtgtt gcaagtgtcg cacttggtec ccttcttttc ttctccacct tcttgcctta 360
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 cgggtcaaac cttagtctca gtctcagcag gtaacaacgg cttgtggggt tgcaatgcc 480
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 cgagtatttc tagtcttccc tggatactcc tcacatggga atcacactct cgggaataggc 600
 25 ccggttccat ctgcagaca gtggacatct gtgttccaga ttctgtcttg gagacaacac 660
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 gacgcagtct cattggagaa cgctttatag ggaagtgtt ttgcagctca cggatgacat 780
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30

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<211> 893

<212> DNA

<213> Arabidopsis thaliana

35

<220>

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<223> n = A,T,C or G

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 taatcataaa aaaaaagtta cagaataact ttcttcttga aggaagaaaa agatcaaaga 180
 45 gaatcaagaa tggtagtggt gtttaaatgg agacaacaac agatgacaaa aggtcaacgt 240
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 aaagtctctc cggtttgcct ctggaaatat tattgtttta atctgactcc gcctcgccgc 420
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 50 agtcattgca aggtccttcc taacgggttt cttcgtggca agtgatagta angatgtgat 540
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 55 acccattgat gtccaagcta gaccatcac aacacctacc ggtgtctgct catagagctt 840
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<212> DNA
<213> Arabidopsis thaliana

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<223> n = A,T,C or G

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aaacttccaa ttccgccggag caatgttcca cgacgtcgag cttctacggg cactgcttgt 180
20 gactctaaaa gaaagtgact gaccaaccaa aactgagtta gattgccagt tttgtcccca 240
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25 agggttacac caaccacat tgtcactagg ctgagcaaag ttcggaggac agaaattagt 540
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gagctcaaaa caagcaccac agctaaaacc attggtgaac agagccgtgc ttaaagccgc 660
cgtgttcaca ccatagcctt ggctgtataa gttaccataa ccacaagctc ctcccattgt 720
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30 gtaaactcct gggattcttg cttcagacaa tgcaagaatt gtagtaagaa cagataaaaac 840
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35 <212> DNA
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<400> 492
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tcacagttgg cgatttagtt gtcaaggatc aggagtttat cgaggcaacc aaggagcctg 600
gtataacatt tgtttagtct aaatttgatg gtatccttgg tcttgattc caagagatct 660
50 ctggttgaaa agctgctcct gtttgggaca acatgctcaa gcaaggcctt atcaaggagc 720
cgggttttct attttggtt aaccgtaatg cagatgaaga agaaggtggt gaacttgat 780
ttggaggtgt tgatccaaat catttcaagg gcaaacatac atatgttcct gtgacacaaa 840
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55 <210> 493
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5 <212> DNA
<213> Arabidopsis thaliana

<400> 493

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	gtaaatatac	atcataaaaa	tggggcta	taccagaaa	aataaagtag	taattacata	180
	atgaaaaaaa	aaaatccttg	tttgtaaata	aacaaatata	acaccataaa	ctgaatttga	240
	tcat	ttttat	aataaaataa	aataattcaa	attaagtttg	atttctttca	300
	gaataagtga	aacttgtatt	tcttcgagtg	ataatccttt	cgtttctgga	acgagcaacc	360
15	atataaaaag	caacgctgct	ccaccgatac	ccgcgaatat	gaaaaacggt	ccttgagtgc	420
	tccattcgaa	cagaaagttg	aaagcgtaag	tgacgattga	actacttgaa	aatgagacta	480
	acgtaactat	acttctgca	gttactttta	tatttattgg	aaatatctcc	gacataatta	540
	ccaaggttag	acctcccaag	cctattgcat	aagttgcaat	atacatcatt	acgcatataa	600
	acgataatat	tggagttagt	tccgaaagca	attgcatttt	ctgtaatgtg	aaggcgaccc	660
20	caagtagcat	gcaagtcatt	ctcatcccaa	acgctgaagt	catcaggaga	ggacgtctgc	720
	cccatttatc	gacaagaatg	aggccaatca	tggcttttgg	aatcacgaag	atacctagca	780
	tcgtcgttcc	aatggccacc	gaaaaaccag	cttttctaaa	aatggtactt	gcataagaga	840
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25 <210> 494
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30 <220>
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<223> n = A,T,C or G

<400> 494

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	ggcnnnaaat	caagtatgct	tgtaggaagg	cacttgcaga	cagtcaaccg	aggatccgag	840
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55 <213> Arabidopsis thaliana

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<211> 891

<212> DNA

25 <213> Arabidopsis thaliana

<220>

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<222> (1)...(891)

30 <223> n = A,T,C or G

<400> 496

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35 aaaacgttgg tctatcgtag ttattcagcg gtgcattcac ttggaacctc tttggcaggt 180
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50 <211> 890

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5 <223> n = A,T,C or G

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10 atoctgcttg tggacctctc attgatggtg ttgctatgcg agcccttttc cctcctcgtc      180
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gttggatggt cgagtctctt aaagctgtca aatacataga ttccgatcat ttctccgttc      360
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15 tccgcactat ccctggaaaa acctacgtcc tatccttctc tgtcggagat gctagcaacg      480
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atgaatcgaa agggaaaagga ggattcaagc gatcgctcatt gagattcgtc gctgtctcga      600
gtcggactag agttatgttc tacagtacgt tttagcgcgt gagaaacgac gatttctcga      660
gcttatgtgg accggtgata gacgacgtta agcttctcag tgctcggagg ccgtgagctt      720
20 gcggcgacga gttgattcac gggacaatga atgatgacag tcaactgtngn tttctcgcgt      780
ctagtggaaa attgggcttt taggcccagt ggcccactgt ttttgttgtt gnnnnnnnagc      840
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25 <211> 890

<212> DNA

<213> Arabidopsis thaliana

<400> 498

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attgctaggg acttgactag atgaaaattc ccaaaatatg tttttcgatt tcagatgtgc      180
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tcttctctc agaaactgta tcctctttt tcttatttgg cagattcttc ttccttcttt      840
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<212> DNA

<213> Arabidopsis thaliana

50

<220>

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<222> (1) ... (889)

<223> n = A,T,C or G

55

<400> 499

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   agcgtcgtgc ttcagctata cgaaggaaga tcaccatttt cggtaacaaa ttagatagtc      180
   tgcagtctct tcttgctgaa attcatggaa aacctatttc agagaaagag atgaatcggc      240
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   tgagcagagt tactggnatg gataaccaag nnnnnnttgg atatcaacga caagttatga      420
   gagaacaaga cgaannactt gagcaattgg agggaacagt catgagcaca aaacacattg      480
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   ataagttcct ctgtaggtcc actggcctct actctctatg tgaatggttg caatgtattt      780
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     tgattacgat gccctacccc aacttgtaga gcctaaggaa aggaacacaa ggtatgtgga      180
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     attgggagtg aagacaggtt tgccctacat ttaccacagc aaagccagca acccgtttgt      420
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     ggtcacttgg attgaagctt gggatgagct taaccacccc actaaagctt gagcagcaaa      660
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40  gagtttattt aaatagttaa tgggtgagtt ctatttatga ccgagacaat ctctcttttg      840
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45  <212> DNA
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     aacagaacca accagttgga gtgtaaaact tcaggagaca gatacactag aaacctcaga      180
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55  cagcctcgaa gaactctcct tcagtcttct tctttttctt ctgagcaacc ttgccgaagt      420
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 cagcaaggat gataagcact gtccctggag tgatgctagc tctgagcttg gctggttttg 660
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 10 tggccttgat tgcccacaaa cctctcttat ggtacatctg agaccttgag tatttaccaa 840
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<210> 502

<211> 888

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

20 <222> (1)...(888)

<223> n = A,T,C or G

<400> 502

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 35 tggggttttat gtaagtttat tatggagcaa ctaagtagta gttttaagtt taagtagggg 720
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40 <210> 503

<211> 888

<212> DNA

<213> Arabidopsis thaliana

45 <400> 503

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10 <210> 504
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35 <213> Arabidopsis thaliana

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10 <223> n = A,T,C or G

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30 <211> 886

<212> DNA

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<223> n = A,T,C or G

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15 <212> DNA

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20 <222> (1) ... (874)

<223> n = A,T,C or G

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40 <210> 551

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	tcccaaattcc	catgtactac	attccttgat	cactattcat	ttctgatttt	atgtattgag	840
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15 <222> (1)...(873)

<223> n = A,T,C or G

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	gcaatagaca	aatctgggaa	cagcttccga	agaatgtcta	taatgtcggt	tacactcata	300
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	ccgcaaataa	atccaggatt	caacacaacc	atgtcgatcc	cattgtcttt	ggcaaattgc	540
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<223> n = A,T,C or G

45 <400> 555

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 <223> n = A,T,C or G

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<223> n = A,T,C or G

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40 <213> Arabidopsis thaliana

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 <212> DNA
 35 <213> Arabidopsis thaliana

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 55 <211> 869
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5 <213> Arabidopsis thaliana

<400> 566

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	ggaaatcgcc	aagtttccct	ctccgccgcc	taaacttggt	cctccgccgg	ttaatcccat	300
	ttccaagaaa	tcttcaaccg	cagcagccga	gccgatcggc	tcgaaccaac	tgatgttagc	360
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25 <211> 868

<212> DNA

<213> Arabidopsis thaliana

<400> 567

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45

<210> 568

<211> 867

<212> DNA

<213> Arabidopsis thaliana

50

<220>

<221> misc_feature

<222> (1)...(867)

<223> n = A,T,C or G

55

<400> 568

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   ccaaacaact tcctctggct cggagttgtg atcttatcat cattcgtcac gtttctcttg      180
   ctcatagggg tgcgtcacacg ttactatata taccctgttg accataatac aggatccatc      240
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<210> 569

<211> 867

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<210> 570

<211> 867

<212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(867)

<223> n = A,T,C or G

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	tcttccattg	atatgtaaat	gtatttccct	ctatcatcca	tgacccccga	gagccgcca	420
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<210> 571

<211> 867

20 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 571

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	accgggggat	ttaggacggc	ataagcaagc	aactcttggt	catcgacaaa	cacggacatg	240
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	tcgctagcgg	ccttggtgtt	cagctcagca	atcttagaag	gttcgaagac	gaatcttttg	840
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45 <210> 572

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<212> DNA

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50 <220>

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<222> (1)...(866)

<223> n = A,T,C or G

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<211> 866

<212> DNA

<213> Arabidopsis thaliana

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<211> 866

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<213> Arabidopsis thaliana

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15 <212> DNA

<213> Arabidopsis thaliana

<400> 575

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	tgatagtctg	tatggcttct	ctaacagcct	cactctgaag	cttactcata	ttgagtgtct	840
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35 <210> 576

<211> 865

<212> DNA

<213> Arabidopsis thaliana

40 <400> 576

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10 <220>
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 <223> n = A,T,C or G

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 <212> DNA
 35 <213> Arabidopsis thaliana

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 tcatccactt tctcccaagc ttcttgagca gtcttgacga tttcaggtaa ctcagtagtc 540
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 50 ggaggagctc ttgaatcgat gatggttgaa gaggaagaga ctgaaagaga agccatagct 780
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 55 <211> 865
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5 <213> Arabidopsis thaliana

<400> 579

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25 <211> 865

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30 <221> misc_feature

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<223> n = A,T,C or G

<400> 580

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<210> 581

<211> 864

<212> DNA

<213> Arabidopsis thaliana

55

<400> 581

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 45 <212> DNA
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 aatttgaagt ctctaaatct tgttgaaagc gacaatgtca caactctgga tgtactcgtt 240
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<220>

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<223> n = A,T,C or G

<400> 584

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40 <210> 585

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 45 <213> Arabidopsis thaliana

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40 <211> 861

<212> DNA

<213> Arabidopsis thaliana

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	agcaactgat	tgggccctgg	aaacttcggc	aggacaggct	gaccaagctt	gtctgagaag	780
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<211> 858

20 <212> DNA

<213> Arabidopsis thaliana

<400> 606

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45 <400> 607

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	tctcttcttt	gtccagatcc	agataccttc	tgggcatatg	aatctggagc	ttgaccatca	660

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	ttggctaata	agatgcctgg	ccagcagcaa	cagtgggcta	atcaaacgcc	tggccagcag	240
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	catcagcaat	catgggctaa	tcagactcct	agccagcagc	aaccatgggc	taatcagaca	360
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<212> DNA

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 15 caaaggaaag ttgagaacag cttttcttcc cctgagctta aaagctgcat agtcataagc 360
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25

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<211> 854

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 45 <213> Arabidopsis thaliana

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20 <212> DNA

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<400> 632

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<212> DNA

<213> Arabidopsis thaliana

45 <400> 633

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5 <213> Arabidopsis thaliana

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10 <223> n = A,T,C or G

<400> 636

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15	agaacacaag	gaaatttact	cagaggtaat	cgtcgtcggg	gccaggagga	agaggagggg	180
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	tcgtctatca	gcttattagt	ttggctgata	tcgagtttga	ttatatcaac	ccttacgact	300
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30 <211> 846

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 50 <212> DNA
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	cccatcggag atatcctggc catgaagaga gaatcatgat aagctcggct gatcatcatc	420
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20 <212> DNA

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<400> 641

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25 ctgcctgcgt ttcaaaatgc actaccggaa aagcagccag atgctccttc ttccaccatc 720
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	aaatttgcgg	caagggagag	gccggaatca	gtggtggtgc	tcacgtctt	cgtcaccgtg	300
	accatccgga	ggaccaccag	gaccaaccac	ttccagctca	aagtactgag	tgcaaaccgg	360
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<212> DNA

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5 ccaatgataa aagagtggaa tgtgtgtgag aagagcgatt aaagagctaa cagtgaagca 660
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15

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5 <213> Arabidopsis thaliana

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25 <212> DNA

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	aaacccaaaag	atgctcctcc	atcgtgctga	aaaccatgcc	tatctaacta	acggtaagag	240
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	caccgactag	ttgtatcaca	gttccttgct	ttcaagctgt	gctttttctg	ctgccttttc	360
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20 <212> DNA

<213> Arabidopsis thaliana

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<212> DNA

<213> Arabidopsis thaliana

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10 <212> DNA

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<213> Arabidopsis thaliana

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<212> DNA

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	caaaacccga	gcaaaagcaa	tgacaaaagc	agttcagttt	aaagccgtgg	aaataaaagg	240
35	cgatcacagg	aaccagatag	aggtaaccgg	cgttgaagtt	gatatgatcc	ctcttatcca	300
	aatactcaga	aagaaggtag	cgttcgcaga	gcttgtgagc	gtgaccaaag	ttgaaccacc	360
	aaagaaagaa	gacgagaaga	aaggaggggg	cggaaagggt	gcagagggaa	aaggcgggtga	420
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	gccgtgttat	ccatggcctc	tgcagggata	cgggtgtacct	tcctcctttc	ctcatcaagg	540
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	gtgccatccg	gcacatccct	acaatgatat	aggggaaccc	gtttacaatc	acgaacccaa	660
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	aatgtttttt	tttattgtaa	agaactaaaag	aagcactatg	tttactatct	agtcatatga	780
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	ggcacaggga	agactacttt	tgttaagaga	catcttactg	gggagtttga	gaagaagtat	180
55	gaacctacta	ttgggtgtgga	ggttcatcca	ttagatttct	tcacaaactg	tggcaagatc	240
	cgttttttact	gctgggacac	tgctggacaa	gagaaatttg	gtggccttag	ggatggatac	300

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5  tacatccatg gtcaatgtgc tataataatg tttgacgtca cagcacggct cacatacaag 360
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   tgtgggaaca aagttgatgt gaagaacagg caagtgaagg caaagcaggt tacattccac 480
   aggaagaaga atctgcagta ctatgagata tcagcaaaga gcaactacaa ctttgagaag 540
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   atcatccttc tagaatgtct gccgtgggaa gctcttgctt gttccttttg gttttctcta 780
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   aaagcccaac ataaaaagtc ttaacagatc aaaaaaagc aagtaaaaga gatagagata 180
   ggagaaaagag agaggtcaat gtccaacaaa ttagtcgacc tcctcgatct taggtccagc 240
30 accgcctgaa gcagggggag catcatcgtc cataccagag gcacctggac caccggcttc 300
   accaccagct ccttggtaca tcttggcaat gattggggtt cagatgctct ccaattcctt 360
   catcttgtct tcgaactcat cagcctcagc caactggtta ccctcgagcc attgaatcgc 420
   ctgctcaata gaatcctcga tcttcttctt gtctgcagcc gggagcttct caccaatctt 480
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   agaagtacag aagttcggat ttcagaacca gctcctgctg cttcacatag aactgtgaca 180
55 gagcctagaa ttattgtcca aacgacgagt gaagttgatc ttctagatga tggatatagg 240
   tggcgtaa atggacagaa agttgtcaaa gggaatcctt atccgaggag ctactacaag 300

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	agccatgccg	ctgcagcggc	acagttaagg	ccagataatc	gacctggcgg	tttggctaac	480
	ttaaatcaac	agcagcagca	acagcccgtt	gcgcggctan	nnnntaaaga	agagcaaaca	540
	acttgagaga	agaaaactct	tgaccgtttt	tcattacaaa	agctttcaaa	ttccactcac	600
10	acacttgctt	gaaaaatcta	gcagtttgca	ggaaagaaac	agcttcaaga	ggttgtagtt	660
	cttctatggt	ctgggtgtaa	acttaaaagc	tttttagggg	tttcagattt	ctgtttacta	720
	atactgtatg	tgaattcttt	tgtacatgag	gaagaaaatt	acagggggat	atthttgtgt	780
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	cctcttctgg	actaaaggac	cctctgcaca	gaacacagtt	gggaccgata	ttcatagctc	180
	catcaaaggt	gcagtttttag	tcacaattgg	ttgcttcagc	tatgcatggt	tcattgatact	240
30	acaagcaatc	acattgaaga	cttaccctgc	agagctctct	ctcgcaacat	ggatagcct	300
	aataggtaca	atagagggag	tagttgtagc	attagtgatg	gagaaaggaa	atcctagcgt	360
	gtggggcatt	ggttgggaca	ctaaacttct	tacaatcacc	tatagtggga	tagtgtgtct	420
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	agcacaagca	accacaagca	agcaaaaaga	acaaagaaga	acagtgatag	aatcagttct	720
	acttaacaat	cacgggtccaa	atgttttagca	tggatgagcc	ataacgtata	ccagctttct	780
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 <212> DNA
 <213> Arabidopsis thaliana

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	cgagthtttt	gggaattcaa	gtggagaacc	ttacacactt	cacacaaatg	tctacacaca	180
50	aggcaaaagg	gacaaagaac	aacaattcaa	actctggttt	gatccaaacg	ctaattttcca	240
	cacttacact	attctctgga	accacaaaag	aatcattttc	accgtcgatg	gaactccgat	300
	cagagaattc	aagaacatgg	agtctctagg	cactctgttt	cccaagaaca	aaccaatgag	360
	aatgtactcg	agtcttttga	acgtgatga	ttgggcaacg	agaggtgggt	tggtcaaaac	420
	cgattggtct	aaagctcctt	tactgtcttc	ttaccgtggc	tttcaacaag	aagcttgtgt	480
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	gtgcttagct	gcatagagag	agtaaagagt	tgagagagga	acaagatttt	atttttcttt	720
	gtgggtataa	aattctattc	attttattgt	agatcacgtg	aattttattg	atttgttttg	780
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	tttttttggt	ttctcatttg	tttgaagagt	acaacgctaa	acagaacaca	caaaataaaa	180
	tcaagaggga	aactaaacca	aaaactaatt	taagtttcat	gaaaaatgga	gaaaacaagc	240
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	accaatatct	caaaactgttc	cactctccca	ccacaaccca	acacaaaacc	acaagtagat	360
	ccgaacctga	accgctttgt	cgactctctc	tctctctcag	tacctgtagt	gaggaggctt	420
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	gaatcatcat	catcatcatc	aacaacaacg	tcacctgagg	ttgagactgt	ctcaaaccgg	300
	aaaaaaacaa	agagggttga	agaaacgaga	cattacagag	gcgtgagaag	gaggccatgg	360
	gggaaatttg	cagcagagat	tcgagatccg	gcaaagaaaag	gatccaggat	ttggttaggg	420
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	tcatcatcgt	catcaaacta	atgggggaat	agtgatgttt	aattagtata	tataggttaa	660
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	aaagaactct	tgcaaaatat	gtactaaaga	gttcctgtaa	caatgggaact	tctgcgtttt	780
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 55 <213> Arabidopsis thaliana

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tgcggagttg atttcatatg gctctgtaac cctagtgtt caagaaaacc attgagaaca 240
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50 <213> Arabidopsis thaliana

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35	aaaatggcat	ttctccgaag	tttctgatgg	atcatagttc	tttcttcttc	ctattaactc	540
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30 gataaacgca gccgcaccac gaacgttgac cgccatggtt cgggtcaaact gttccagatt 540
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cttcccgtag ttttcgacgg tgaacttaac ggcgtttnnn acctcctttt cgtttgtaac 660
atcgcaacgg taaaannnng ctttgtcttt cccgacagaa acggcaacgt tttgaccaag 720
ttcttcttga aagtcaacga tgaccacctt agctccgtgg tccgtgaaca gcctaaccgc 780
35 ttcggctcca atcccgctag ctccgcctgt tattattgcg attttgccat cca 833

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40 <213> Arabidopsis thaliana

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45 agtgagattg agtatcagaa caagaaacaa ctgctgcagta aggtagaagt ttacagtga 180
ggaatgagcc agaaaagaaa agaggaagaa gatgtgacca aacatggcaa ggacaagtat 240
agaagtgatt ctctgtggcaa ggaagtgtgt agagactctg atgacagtga ggctgagtat 300
gaaaatagga agaagctaaa gaatgaaagt taccaacgag gacgtaaaaca caaaagagag 360
gaggatgagg acaacgataa ccatgggagg gacagatata gaggtgatga tgctgttaaa 420
50 agatatggaa caattaagga agacgacgat aggtatagag gtcgagccat tgaggaagaa 480
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gagtataagc atgggagaga caggtacaga ggtgatggaa gacgagcaac gggtaaggaa 600
gatgatgatg atgatagagt aagcagagag cgtgaatact caagcagggg tcgaagtctg 660
tatgatgata gccgatcaag tggcaagaga tctctgcgatg gttgatgatt cctgtttcat 720
55 ctttgtctgt ttaaagtttc ttaaagtgtt tctcgtgttt gtcacaaaaca taatccttctg 780
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5
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 <212> DNA
 <213> Arabidopsis thaliana

10
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 ttacatttga acattcacat tacgtgggta aagtgtcagg aagagccatg gaatgagctc 180
 15 caatgatctt accaccaaca tctgggaagg tctcgtaatc aggaagaggg cttactttac 240
 catcaacgtc tacttgtaga ggatacttta ttaagtgacc ttgtagctct gagaatttcg 300
 ggtctatgaa tcttttccag ttttcttcag agattgtgtt caccttcttc agacattcca 360
 gatctgatgg ctccacaaac tcatctccag ttttgccata atgctctgcc catagtgaca 420
 ttctgtatcc atacacctgg ccacgtgggt gtcttccctt gtgagcccat gtatgattag 480
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 tattagcaga tcccatgagt acatactcat catctactat catccctttt gcgtgcacgt 600
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 tatcatctgg aagctgctct cgtttaccaaa ggcagtaaaa gttaaggtaa tcgagaggat 720
 gagcatctga ttgcaccgct ttcagttctt ttgtataaac atcatacatc atctgcatag 780
 25 tttggctctg ccaatataga atttcttgca cagggccaga ctttgggtcg ccc 833

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 <212> DNA
 30 <213> Arabidopsis thaliana

<400> 689
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 35 tgaaagtaca ctgatatat tttgatctac atttacttga cgaagtaagg aaggtcaaga 180
 acgtagagaa ggaagtaagc ccaagtcacc ccagagatcc ctccaaagaa gaatcctcca 240
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 gtgaggcaca tgctgaggat gactaccagc ccagccgcgg ctaaagaccc ggctgaccgg 420
 40 gcgtaagcag tgttccttaa tgggcccagct ttgacgaatg ggccactaa gaagaaacca 480
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 45 atgcccttcg ggacggcgag acgctgagaa agagaagcgg aggagaagct gctccttagc 780
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 50 <213> Arabidopsis thaliana

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 gtaggaaacc gatatactgt agttgtctct tgattttctc aaagatcagc aaagaccgcg 180

5 aatatgtcac cattgatgta atcgtttctcc accaagctta ccaaatagta gctgtttcttc 240
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 gaccaagtct caaatgcttc atccttccag acgttgaagc tagcgggatc gacaatgggt 360
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 gcagtgttcg ataccactg ttctcctttg ttcacagcca tgtaagtaat cgatggcaaa 480
 10 gctttgcatt tctccaccac tgcattcaat ttctcctttg agcagaagaa ctctagataa 540
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 agttgctcgt ttattatcct tgtctctggc tggagtccat ctaattcaga ccagggactg 720
 cttttaaggt ttccaaggca gagctccttg aatttctcct gaatatcttc aacacttttc 780
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<210> 691

<211> 832

<212> DNA

20 <213> Arabidopsis thaliana

<400> 691

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 25 tccagctatc tatccgagag accctgaagg tatggatgat gttgcaaacc ctaaaacggc 180
 ggcggaagaa atcgtagacg atactccccg accgagttta gaagagcaac cgcttgtacc 240
 gccgaaatct ccacgcgcca ctgcgcacaa gctagagagt actcccggtg gtcacccgtc 300
 agaacctcat ttccaacaga aacgaaaaaa ctccaccgct tctccgccgt cgcttgattc 360
 cgtgagctgt gctggttttag acggttcacc atggccgaga gacgaaggag aagtggaaga 420
 30 gcaaaggcga agagaagatg aaacagagag tgaccaagag ttttacaac accacaagc 480
 ttctccgtta tcggagattg aattcgccga tactcggaaa cctattacgc aagctaccga 540
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 ggcggaagaa tctttgatga aagcaacaat gatattcaaa cgcaacgcag aacgtggcga 660
 tcttgaaacg tttcctcatt ctagaatctt aagagaaatg agaggcgagt ggttttaaac 720
 35 taaagaccac aataaaatgt taagaagtgt ctgaataaac ttttgtcaat tagcttcatt 780
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<211> 832

40 <212> DNA

<213> Arabidopsis thaliana

<400> 692

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<210> 693
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10 <212> DNA
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15 <222> (1)...(831)
<223> n = A,T,C or G

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50 gttggcttgt ttaaaatttg gcttgaacac aagtgaacct tgttgattaa tagaaaaatc 660
aactttgcat tttgattgat tcgtttgtaa taattctcat ctccgaaaat cctaacctct 720
gtttgttgat aagtcttcat gtgatcatgt gacttgattt cttgcaagtt aaaaatttgt 780
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55 <210> 695
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5 <212> DNA
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<220>

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<223> n = A,T,C or G

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	agttgctggg	gtattgatgc	tatgctttct	atattacaca	caaacaatta	nnagactata	180
	cataacaagg	ctaaagactc	gatgtcgtat	gttaagaaga	ttcttggtgt	tgacgacgca	240
	ttcttgccgc	ccaagacatc	gtgttattat	ctttctgatt	gcttcttctc	cttaaccctg	300
	agagctgagt	ttgccatttt	gctttccact	cactcttctc	ttccaccact	tcctgatcgt	360
20	aacggttccg	gcgtcgaccg	gagaaagaaa	aagaaaaccc	catagacaaa	tcacggtcac	420
	ataaaaactct	ccggcgagga	tcggagagag	tttcgtaagc	ttcttgaact	cgaataaacc	480
	gatctgtgta	ttcttcgaca	cgatccggag	gagaaacatc	ggggtgatat	tttcgagcaa	540
	gttgtttata	agcttggttg	atctctggga	gtgtgactga	ttcggtgacg	ccgagaagat	600
	cgtagaagga	taagtcttcc	gattgtttta	ctggatcgtc	gtgggttaat	cgagattgga	660
25	tccgggtgga	ggagaatcgg	gttcgggtcg	ggtaagagat	agttgttggg	attgaagttg	720
	gttgaagaga	ggagattggg	tgttggtttg	agaagaatgg	gtgggtgattg	gttgagagaa	780
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30 <211> 830

<212> DNA

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<223> n = A,T,C or G

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	tcttcaactc	ccgccgccgt	cgtcaccgcc	gccgaatccg	atactccgac	ggcttattca	180
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	gttattagaa	acggtgacga	gatggagtgt	tccgttgggg	tcacatcggc	gaatttcgcg	480
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	ttggacatga	ttgagagaat	cccttttctt	tcttcgtctt	gaaattgaaa	aagggtacaat	600
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	attgtccaat	aatatgagcg	tagtnnntgg	aatttgtaat	tgtttacttt	agttctatgt	720
	attggattca	agttctgtaa	tgggtgaaaag	aaaagatact	gaaggagat	gtgaacattg	780
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55 <210> 697

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5 <212> DNA
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	tttggttgag	aaatggcttc	gaaacggatc	ttgaaagagc	tcaaggatct	ccagaaggat	180
	cctccaactt	cctgcagtgc	tggcccagtt	gctgaagaca	tgtttcattg	gcaagctaca	240
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	ccaccggatt	atcctttcaa	accaccaaaag	gttgcatcca	ggacaaaagt	gttccaccct	360
15	aatgtcaaca	gcaacggaag	catttgcctt	gacattttga	aagaacaatg	gagtcctgca	420
	ctgaccatat	cgaagggtttt	gctttcgata	tgttcattgt	taacggaccc	aaaccagat	480
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	tcaaagactc	ggttttaata	gagagaagag	agaaagagag	aggacttctt	cacataggga	660
20	tcttccatga	aataagttag	attcctatgt	tttatcatct	ctttgtttga	aacctcttta	720
	atctcaaaca	aaaacattcc	ttctcctctt	tacccatccc	tatgtttcct	atctttgttt	780
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25 <211> 829

<212> DNA

<213> Arabidopsis thaliana

<400> 698

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	ccgagttctc	tcctaagtca	actccattat	tgctgagtcg	ggtcaaaacc	aacacaacac	180
	ttctctcagt	aagatccttt	accatcgttt	gatccaaacc	caccaaagct	gctccttcca	240
	cttgactgag	aagaacggtc	tgaaccaaata	cctcctgaag	aaccgcctga	accaaagctt	300
35	ccgaaaccag	atgagcggtc	tgaaccacca	gagtaacggc	tgcttgatcc	ccctgaacct	360
	ccataactac	caccaccacc	acctgaacgg	ccactgctgc	caccataacc	tccataacta	420
	ccaccacctg	aacggccact	gctgctaccg	taactaccat	accaccacc	gcctgatcga	480
	cctcctccga	acgaccacc	agatctagca	cctactcctt	caaacatgct	tgcgcttcct	540
	ctttccacag	caatgctagg	cagctcattg	aatctgcttc	cgacttcttt	ctcaatcatt	600
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	cgaccagttc	gccccgttcg	gtgaacaaac	gtctccgtgt	tattaggaag	ctcataatga	720
	attactaaat	cgacattagg	tacatcaagt	ccacgggcag	caacatcagt	tgcaacaaga	780
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50 <400> 699

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	tcgtcgggtca	gggtgttagt	atgtgtgacc	ttactggggac	tggtctaata	gctgtttcta	360

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	cgactatcac	taagagcgag	aggaatggcc	ctgtgttccg	ttttttcatg	gatcttgggtg	480
	atgcagtttc	atatgttaaa	aaactaaata	ttccaagtgg	agtgggtggg	gcttgtcgac	540
	ttgatttggc	atatgagcat	ttcaaggaga	aacctcactt	atttcagttt	gttccaaatg	600
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10	aaaagggtgga	gggtgtccct	gttttcgggtg	ctcaaaacct	ggacattgct	gttgcaactg	720
	cagatggaat	taagtgggat	accccatact	tctttgataa	agctgtactt	gataacattc	780
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15 <211> 829

<212> DNA

<213> Arabidopsis thaliana

<400> 700

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	catcacacgc	gtcgtgtcat	catcctccga	ttcaggcgag	tcaataacca	gagagacttt	180
	ccacggcctc	tgcttcgtct	tgaagacaa	catcgacacc	gatcaaataa	tccccgccga	240
	gtacggcact	ctcatccctt	cgattccaga	agatcgcgag	aaactcggct	ctttcgcgct	300
25	taacggctta	ccaaaattct	acaacgaacg	tttcggtgtt	ccaggagaga	tgaaatcaaa	360
	gtactcagtc	atcatcgggc	gcgataatct	cgggttgcgga	tcttcccgcg	aacacgctcc	420
	agtttgtctc	ggcgcgggcg	gagctaaagc	tgtggtggcg	gaatcgtagc	ctaggatctt	480
	tttcaggaac	tgtgtagcta	cagggtgagat	tttcccgttg	gaatcggagg	ttaggatttg	540
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30	gctgatcaat	catacgacga	ggaaagaata	caaactgaaa	ccgctcgggtg	atgccggtcc	660
	ggtgatcgac	gccgggtgaa	tcttcgctta	tgcaagaaaa	gccggcatga	ttccttctgc	720
	ttgaatgtaa	tccgatccat	aatttatcgg	ttctgagttt	aatccgggtt	ggtttatttg	780
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35 <210> 701

<211> 828

<212> DNA

<213> Arabidopsis thaliana

40 <400> 701

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	tccccaatta	cactcgtttt	tgttttcatt	caaagtttat	gacagggaaa	acgatcatat	180
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45	agctgcgtcc	ttctgttgc	cgacccatga	gaggaaggca	ctgtctacta	ggcaaaagat	300
	gttgacgtaa	agcaactgg	attgcacggg	aacatatctg	aagtttgcaa	tctgaagaag	360
	tggccatgct	ccgccttcaa	gagctagagc	cgggaagaaa	tctctcttga	gtccttcttt	420
	cacttcagct	gtgttctttc	ctgtggcgaa	tcccatgtat	gtgaagaaca	ccagtagatc	480
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50	tggatcatat	cgaagcttca	gttttatgaa	tttatccaag	ccttcgtacc	aaaagtggcc	600
	aacagggtcc	acaaaaccaa	atccaaacat	gctcgtgata	gtactcgtct	tccagttgac	660
	tttgaattct	gcatctcgct	tccagttgac	cttgaattct	gcatctcgct	caacatcttt	720
	attcgtttcg	gtgagacgaa	gaagacgacg	tttcgcagtg	gaatgagtga	tgtattgagc	780
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55

<210> 702

5 <211> 828
 <212> DNA
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<220>

10 <221> misc_feature
 <222> (1)...(828)
 <223> n = A,T,C or G

<400> 702

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	gtcataccat	aagagtatta	ataaaacaag	acaaaattaa	gatagagaga	gtagcaacca	180
	ttgggaaaaa	ggctagtacg	agtcttggtg	aagcttaaag	cttgtcttcg	aactcagata	240
	gtggagtcac	cgcttccttc	aatcccttcc	tcttcctgat	atcagccacc	aaaactgaag	300
20	cctgagtacc	tggtcacaaga	gggtcagaag	acatcatttc	ccaatgatca	aacacacact	360
	gtgggaatgc	ctgtcctgag	gttgctgccc	taagctgact	tgagaatccg	aaagactcca	420
	caacaggcag	gtatgccttg	atgttgtaca	agggagttcc	tggcctctgc	atctcctcga	480
	acacgtgtcc	acgtctctga	ttcagcacac	tgtagattcc	tccaagagct	ccctctggtg	540
	cctggatctc	aaccatgtaa	accggctcca	aaagtctggg	cttagctgtg	atctgggaag	600
25	cgtatatgac	ccttctggct	gtggggataa	cctgaccacc	tcctctgtgg	atggcatcag	660
	agtgaagcac	cacatcacat	acctcaaaac	agatacctct	catgttctct	tcagcaagag	720
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30 <210> 703
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 <212> DNA
 <213> Arabidopsis thaliana

<220>

35 <221> misc_feature
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 <223> n = A,T,C or G

<400> 703

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	gagctatttt	tgaacttgca	atatcccagc	cagctcttga	catgcctgag	ctgctttgga	180
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45	agcgactctt	ggaccgtact	aagcattaca	aggtgtgggt	tagctttgca	aagtttgaag	300
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	attacaaaga	ctccacacca	gagctgaagg	aagaacgagc	tacgctcttg	gaggattggc	480
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	aatacatcga	ttattttatac	ccagaagaat	cgcaacaac	gaatctcaag	attcttgaag	660
	ctgcatacaa	atggaagaag	cagaaggttg	ctgcttctga	ggatgattga	gattaagctt	720
	ttttcttaag	ttatatcaaa	agtcaaaact	gtgaaatgtg	ttttgtattc	ttccttagct	780
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55 <210> 704

5 <211> 827
 <212> DNA
 <213> Arabidopsis thaliana

<400> 704

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15	tcgcattctc	caccttcagt	ttctcctctt	ctttaccttc	cgtctcaaac	ccgatctcgc	360
	aaatgccatc	tttggtgag	aaatggtaag	tgataacgga	gttagctttg	aagtacttgg	420
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25 <210> 705
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 <212> DNA
 <213> Arabidopsis thaliana

30 <220>
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 <222> (1)...(827)
 <223> n = A,T,C or G

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40	atctaagtac	cactcgaact	tctccnngt	gaatccggnn	tcccogatcc	tcgcataccag	300
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	tgcttttcggg	taggtatgta	caattacagg	acctttgtag	atctcatcag	tcagataact	480
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45	tgctttttgc	agaagactaa	tcacttcggt	ataggagaat	ctcaaaagg	agctggatgc	600
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	ttcatcgcca	ttttccagaa	catatttgca	gaggaacttg	aagtattcat	cagcacaatc	720
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50 <210> 706
 <211> 827
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 706

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	tgatggctgc	gacgcctcct	cctcgactga	gaaccattcc	gatggagaca	ccaaaatcga	240
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10	tggcggcatg	aagctagccg	ttaatgtcgt	agccggttct	gccggacctc	cggccactcc	360
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	atcaccacaca	cccaccacac	ccacacctgg	tgcaggttca	acttctcctc	ctcctccacc	480
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	tcatcatcac	attcacttat	tctcttggtg	taataaatta	tactattaat	tttcattttc	780
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20 <210> 707
 <211> 827
 <212> DNA
 <213> Arabidopsis thaliana

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	gtttgctata	taccacagtt	tccaaaacta	aacatgaaag	ttttctcttg	acatgaatca	180
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	ttccttcgga	atagccgcct	atacatagag	tgtctcctcg	accatgccag	ataccatcat	420
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35	tcaacatacg	gaagaaaccc	aagtaggata	caatcaaaag	aacgaaagca	atagccagat	600
	agagaaagca	gtgcctctta	gttacagcaa	aagcaacaac	attgaataag	aaaccggcaa	660
	taagaatcat	atgaacagca	cctgaagaa	agcaagaacc	aaaaccagtc	cttgtcatgt	720
	ttttcccgaa	tctgtagcat	ggacagcaag	cagattcgat	acagagatga	cgatcttcaa	780
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40 <210> 708
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 <212> DNA
 <213> Arabidopsis thaliana

45 <220>
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 <222> (1)...(827)
 <223> n = A,T,C or G

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55	cgaggatgaa	aatataaaaa	attacgaaga	aatggaacac	aacttcgagc	cccagccatt	240
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5	taccatcatc	ggatcctgaa	gtcggagaaa	tgcttatagg	tccaggggac	gagccagtgg	360
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	gacaaacaga	aggaagtgcg	agagctagag	agacgttgat	ctggagaccc	aatcaggat	540
	cattcctgtc	ttgaatgata	acacaaagac	acttcttgtt	tgaattaaga	acttgtttga	600
10	gaccggagca	acagtctggc	gtcggagatt	ttgcttgtcc	ttgcacgtaa	ggaagacacg	660
	tggccatacc	gaccnnnnnc	tccgtacact	cctccttgtc	tttcgtctta	tcatcagcag	720
	ctgccaccac	catagccacc	actattaaag	ctattgctgt	cgccattagg	ttaatcttcc	780
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 <212> DNA
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20 <220>
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 <223> n = A,T,C or G

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	ggaccaata	ccgaactcac	acacataact	gaaactccag	ttcacctcct	atagccggtt	240
30	cccttctctc	acactctcag	aaatttccaa	nnaatttctc	accgtttcgt	tatctacaaa	300
	tccactataa	atacttcaact	cttcagcttt	gtattattct	cttaacattn	nattactctt	360
	atccttttac	cttcatcatc	ctccactatt	tacagttttg	ccactctgac	tttatgctag	420
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 <211> 826
 <212> DNA
 <213> Arabidopsis thaliana

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	atggtagtac	tactggcgt	tccattagcc	tttccattga	acctcatacg	gctgaagcta	360
	gacatacgta	caaaggttcg	gttaaggggg	ccctcacacg	cagaggctgg	cgttgaaggt	420
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5	tgatcatcct	cgaaccaa	atcgctagt	atttgattga	gagttgtact	aggatccatg	660
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 <212> DNA
 <213> Arabidopsis thaliana

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	aacttagaaa	aacattgtat	ggttatatgt	ggatgactta	ttctcacatg	gtgttttagaa	180
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 <211> 826
 <212> DNA
 <213> Arabidopsis thaliana

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 <211> 826
 <212> DNA
 55 <213> Arabidopsis thaliana

5 <400> 713
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20

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<212> DNA
<213> Arabidopsis thaliana

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atcaaagcag ttggtgatga tgtggcaaaa tatagcaaaa tgatcgaaga gacgagttat 480
35 cacgttttgc aaaagatcac tggttctgga aaataaaactt tatcgatgtt tgatggaatc 540
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ctcatggttt tcttgggtgc cgtttaatta tttcagtttt tcttttaagt gtttgagttt 660
tcaaaaataa gagacgacgg tcttctctc gtcgaggaag ctatcttctc cactttccat 720
tatttctctg tttgtaggag tcaactgact cacttttttc ttcttgtaat gttttttttc 780
40 tcttcttgta atgtttctca ctttctctat aaaaaaaaag cggccg 826

<210> 715
<211> 824
<212> DNA

45 <213> Arabidopsis thaliana

<220>
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<222> (1)...(824)
50 <223> n = A,T,C or G

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55 tgcgacgaaa agaaggcgcc ggattcaaag aacacccaaa tacaatcga agacggagcc 180
ttttcagcaa tttcgtttta ttcaacctct ggaacaccaa tcatctcaaa ctgattgaat 240

5 gagaagccct ccccggtctc tgctctccct caccgtcaac gccgcccgtct taaacatctc 300
 tcgcatcaac gatctctccc atcttcctga tcacatcgtc cttgacctct tcgcgaggac 360
 attggaagct gggaaattga atgagagagt tctgagactc tttatggcat ctggaaacga 420
 agaagttctt tctgttatcg acgccctcaa aatcaaaatc aacgtttccc cgatccttcc 480
 tactcgatgt gatgagaagt ttagattgca cgggactaga cgataggcga aaggtgaatg 540
 10 attacgcgat gagcgagttt gaaaacttgn nnctatgtgt ttaaagggtca gttcctgatt 600
 gcagtattcg gatcatttag gtagaaaaaa caatgtgaac aactgcagag atacattacc 660
 agattgaagt ctgtattttt cttctctttg tgtgtaaata tgaaacgaag gcggtcaaatt 720
 tataataaag cttcttcttt cttccgttct tatgaagttt tatgcaatca tagaagcttc 780
 ttgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 824

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 <212> DNA
 <213> Arabidopsis thaliana

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 <223> n = A,T,C or G

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 35 agatagtggc gaaaacgtta aaggttctcg ggtacaagaa ttgctatatt gtgacagatg 540
 gattctcttg tggcagagga tgggtgcaga gccgggttagg cactgattct tacaacttct 600
 cgtttgcaca agtcttctct ccatcgcgga ttatcccggc agcttcgaga agctttggca 660
 ctagggtcgg aaccaagtct cttcctagct ccgactgaaa acagaggata tataaacagt 720
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 40 tttcgaatta ttacttactt gtcttttaca ttgatgatca tata 824

<210> 717
 <211> 824
 <212> DNA
 45 <213> Arabidopsis thaliana

<400> 717
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 50 attcaacaac attgcttttg cttttaaaag caaaaaacgc atcactgaac attgaacttt 180
 tgcttttgcga atgcaacgac ctcttcgacg gttggcatgt agggcttaac agcttcatgg 240
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 55 tcttcaagta tcgccaaaca ctccatcagc tttcccaccg ccgccatttt ccttctgctg 480
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	caagcctcgt	cgacgtattg	aacaacgttg	agggactcac	agatggagag	gtcaccatgg	660
	aggaggacag	ggacttttctt	gtggatgggg	ttagatttga	gaaggagttc	actcttttct	720
	ttaagaacat	cagggttcgtc	taagtactcg	tacttgacag	atttcaagtg	tagagccaca	780
	cgtgccctaa	gggaataagg	gctagaccaa	gaacctatca	gctt		824

10

<210> 718

<211> 824

<212> DNA

<213> Arabidopsis thaliana

15

<400> 718

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	agctcacggc	ggccaccgca	gcctcacaga	cggagcttc	caaaaaagcc	ataaacttca	180
20	tccaatcttc	ttgcaaaacc	accacatacc	ctgccttatg	tgtccactca	ctctccgtct	240
	acgcaaacga	catccaaaca	agccctaaac	gtttagctga	gaccgctata	gccgtgacac	300
	taagccgagc	ccaatccacg	aagctcttcg	tctcgcgtct	aacacgtatg	aagggtctta	360
	agaagcgcg	ggtcgaagcc	atcaaagatt	gcgtcgagga	gatgaacgat	accgttgacc	420
	gtttgaccaa	atctgttcaa	gaactgaagt	tgtgtgggag	tgccaaagat	caagaccagt	480
25	ttgcgtacca	catgagtaat	gctcagactt	ggactagtgc	ggctttgact	gacgagaaca	540
	cttgctccga	tgggttctcg	ggtcgggtta	tggatgggag	gatcaagaac	tcggttcggg	600
	ctagaatcat	gaacgtggga	catgaaacca	gcaacgcttt	gtccttgatt	aatgcctttg	660
	ctaaaactta	ctaattttaa	actataat	gtcctgtaaa	atatatatat	agataaatgt	720
	aatgtcttgc	taagagtttg	atgtgatata	tttttttcga	ttttggtagt	ttctttttgt	780
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<210> 719

<211> 823

<212> DNA

35 <213> Arabidopsis thaliana

<400> 719

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40	tgggtttgtc	ggaggttttt	tccctgtctc	taccaccaag	atcgcgtgga	aatcaagaaa	180
	aagatcagca	ttgttgaacc	tagacaaagc	accggagggt	gttacggagg	tcacaccaga	240
	gaagaacgag	ataacagcaa	tggataccga	gaaagttggg	gaaccaatga	ccacaactcc	300
	tcttctgtcc	gagaaaagga	aagctctgtt	cgagccactt	gaaccatta	cgaacttgaa	360
	cggaaagcga	ccaactgcgg	ctgattcatt	gttgccaccg	cggattttcg	agactgcaaa	420
45	ctacccaaaa	ggctggttga	tcggtaaaga	gaggaagctt	gtgaatgttg	atgtagttga	480
	gagcatgcgt	agaatagctg	tccaagaaat	gaacagaaag	gatcgagaga	tagatgggtt	540
	aaacgagcag	ctagaagagg	attcacggtg	cttagagcat	ctacagcttc	agctgctaca	600
	agagagaagc	aagagaacag	agattgaaag	agagaacaca	atgttgaaag	agcaagttga	660
	tatgcttgtg	aacatgatac	aagaagatga	cgaagaagga	gctgaagaac	cctaagctag	720
50	ttctcatcaa	atctatgtct	cacctataat	agctgtgttc	tggttttttt	attcttttgt	780
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<210> 720

<211> 823

55 <212> DNA

<213> Arabidopsis thaliana

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atcgattcct acctctattc ccgtcaacgg aaacacgtta cctagttctt acggaactcg      180
10 caaagacgac agcccgtttg ctcagttctt tcgctccacc gaatccaacg ttgagaggat      240
aatatttgat ttccggttcc tagcgctttt ggcagtagga gggtcgctgg ctgggtcgct      300
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ctgttcaaaa ggcattccata ccggccaaat gggtttacgc ctagtccaag ctatcgatgt      420
ttatctagct gggactgtga tgttaatat tagtatgggt ttgtatggac tcttcattcag      480
15 tcactgcct catgatgttc caccggaatc cgatcgtgcc cttagatcct cttccctctt      540
tggtatgttt gcaatgaagg agagacaaa atggatgaag atcagctcac ttgatgagct      600
gaaaaccaa gtgggacatg tcattgttat gattctgcta gtgaagatgt tcgagagaag      660
caagatgggt actatcgcca ccggtctaga tttgcttagt tattccgttt gcatcttctt      720
gtcctctgct tctctttata tctccataa tctccacaaa ggagagacat gaaccaatgt      780
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<210> 721
<211> 823
<212> DNA

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25 <213> Arabidopsis thaliana

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<220>
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30 <223> n = A,T,C or G

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35 catttattca aacaaaagtc caacacgatt aaacaagaag aatcaatatt ccatcctttg      180
cagtagtaaa aagggacttc actaatcact tgaaaagcca aatgatttag tttttttttt      240
gtttcttcga agaaataaag aaagaaacct tcttttagcc cgagagagct gcgttgatgg      300
cactgtgaac ttcaacacca atctgtgcct ctgctttctc aagatctgtt gtggcagaag      360
caagtttctg ttggaactca gctaaacctt tttggacttg gctagggtca atgtggtcaa      420
40 gcggcacagc ttccaccgcy attatgtcag cgacggaatt tgcgtggagg aatgcaaac      480
cactgctcaa gaagtatttc ttcacgtcag tgccctcatg gacggacatg atgccagggt      540
ttagctcagc aattgttga acgtgtccgg gcaagacacc catttgcct gttgatgcgg      600
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45 aaggagtctg cgggtgggtcc atattcgggt cgactttctt ccatgcctcg acgaaagtgg      780
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<210> 722
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50 <212> DNA
<213> Arabidopsis thaliana

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<220>
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<223> n = A,T,C or G

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agggtctttat caagtcgaca gcttttccga cgatccaaag ttgtcaaggc agtagcaacc      180
10 ccagacccca tcttgggaagt acctttaact gaggaaaatg tagaaagcgt tttggatgaa      240
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attgtgcggg ttaagctgca gggagcatgc ggatcatgtc caagttctac tatgacaatg      360
aagatgggta ttgagcgtcg tctaattgaa aagatccctg aaatagtggc tgtagaagct      420
cttccagatg aagagactgg ccttgaactg aatgaggaaa acattgaaaa ggtgctggaa      480
15 gaaatnnnnn nnnacttaat cnaaacagca gatggatcgc ttgatctagt ggagattgaa      540
gatccaatcg tgaagataag aatcacagga cctgcagctg gagtcatgac agttcgtgta      600
gcagtcactc agaaactaag agagaaaatt ccatcaatcg cagctgttca acttatatag      660
aaacaacaac tcttcttgta tgctttgtat tagctccctt gtatagtatt gttgtgcata      720
gattatgtgt tttgttgaca tttgtatatt gtcctcaaat aagttttcaa catttttgtt      780
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<210> 723

<211> 822

<212> DNA

25 <213> Arabidopsis thaliana

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30 tttacaagac ataaccggtt ttggttcatt tgttcaacaa acttaactaa atggctctga      180
aagatgttga aattgagtaa cacagtgagg acttcatgaa ctttcctttg ctttcttttt      240
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35 tcgatgatgc cactcaatt ccgagtattc ttgaaaacag atacccaaag agaaatccag      480
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tcacaggaga gacgaatttc accagctttt taaagtattg gtttaagaaat gcaccagcca      660
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40 tatactgctt ggcaagcttc gccgtaagaa gcggtgtcat aatcacagct gaaacagtgc      780
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<210> 724

<211> 822

45 <212> DNA

<213> Arabidopsis thaliana

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55 gggctacgag ataagaagaa tgatcataga cgatggttct ggtactcttg tgttgttgga      420
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5  gctatctggc ttccgtttgg gccgctttgt ggagctggaa tttgtctata cgtggaccat 540
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   gcacggtaga gagataatag ctactttcaa acctcgtcag agtgaatttg tgatagcaag 660
   agtgcaagtt ttgactctat tatcccctaa agaacattct tctgttggtg taaatagata 720
   cgaaactctg aagttcgttt tgtttaaaaa ctcattgattg actcgaacta gattccagtt 780
10 catacatgta atactcttga tttattcaag caattcactt aa 822

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<210> 725

<211> 821

<212> DNA

15 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1) ... (821)

20 <223> n = A,T,C or G

<400> 725

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25 taaagggtgtc agagattgta ggttcccact tctgaaggat gaccatccat tgatcatagt 180
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30 atcagggata aagtagagat tcaaacagtt tcagggtttc aaacaggata acagggatac 480
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   taccgggatg catagagaag atacctccac ttctcgggtga ggtgaaaaca gttgaaaacg 600
   ccggaaaaag gtacttgaa ctccatcttt gcccggtgat gttaaagccat ttttggaagg 660
   aactgttgga taattctgtt ttagtaaaaa gaggtagctg agatctgggt tttcaaaagt 720
35 ttccaactgc taatagactg cattggagaa agtgccctgg agaaaactca acgctctttt 780
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<210> 726

<211> 821

40 <212> DNA

<213> Arabidopsis thaliana

<220>

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45 <222> (1) ... (821)

<223> n = A,T,C or G

<400> 726

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   gttatctcag tttcaaaacg ttatagattc actgaaaatg attcaagatg ccatctcaaa 240
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55 cttagcttat ctgttcttcg gaatagctgt agctcagcaa ccggataatc aagtctacca 420
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5 cttactctca ctattgggtg gcgttgaaac ttttagcaata ccgagcccaa aggtagtga 540
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cgttggttgc tgtattagtt ttcgaaagct aaggtgaatg agcttggtgt gagaatatcc 660
acacagaaga tatgggcaaa ggagaaaaag gtnncaagcg taagaccctt agagcctagg 720
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10 accatacaat tccaagttat aaaaacaaaa aaaaaaaaaa a 821

<210> 727

<211> 821

<212> DNA

15 <213> Arabidopsis thaliana

<400> 727

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20 ggtcgtggaa actggggcac tactgaagat gatatccctc caacgtctga ggaacctacc 180
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25 tctaacaaga agaacaccga tgaagaaatc ttcattcaagc tgggatctga caaggaaaaa 480
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30 ctctgtcttt cgtttctctt tggttgaatt ttggttagttt tataattttt tgttacactt 780
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<210> 728

<211> 821

35 <212> DNA

<213> Arabidopsis thaliana

<400> 728

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45 ttgattttga tgatatggaa gatttctttg aactgatgc tgctgagttt gatcaaggat 420
tcgatggaag aatgtattac caagcacctt ccgaatttg ctttggaag aatggtgaga 480
tggttaagaa atcaagtgga aacaggagcc cgagatcgat tgtggaacca gctaagtatg 540
cggaaaagcc agcgaaatgg ggaaaccaga ggggtgctgc tgctccgaga aacatccacc 600
agcctcgctg aagagatatg ttgttaacta gtcagagaag tcagagcagt tcggtctgtg 660
50 tatcttttagc caccactgta cttttgtaat ttttagtatt tgcttcacac acaaaaatct 720
gtaactttgt atctttatga tgttcattct caaacttgct atcacaaaaa tgtaaaaaca 780
taaaaaaaaa aaaaatgtaa actttgaaga gaaatgagaa c 821

<210> 729

55 <211> 820

<212> DNA

5 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(820)

10 <223> n = A,T,C or G

<400> 729

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	ttacatatgg	agaaagtgac	ttttgctgca	tccactatga	acatcattaa	agctattcac	120
15	aagcctactg	aatggccatt	gattttaagt	cacattgctc	ctctccttgt	cttaggcagt	180
	ggaaaacag	attggtttgt	tctgtttgag	cctacacaaa	atgcaatact	ggagcttttt	240
	ttattgcaaa	aagtgtgaca	ttagatctca	ggttgagttc	ttatgttgct	cgccacgctc	300
	ctagatgggt	agcagggttt	tttgaacacg	aaaagagttt	gctttttaa	ccttcaatct	360
	aatcctttcc	ttctagagat	aggtctggtc	ttctctgnna	agtgtcaagg	ataggttcag	420
20	tcttttcttt	ttaggttaata	aatctccact	gttcagataa	gttagtggac	acattttgag	480
	ttacttttgt	caagatgatg	ttaacaggaa	gacggcgata	aacaagcttg	gtgatcttca	540
	ggtgactacc	ttttgggggt	atgctgctac	tatnntcga	aaggaggata	tgatgatata	600
	tacaggtcgt	tcacaacaaa	tgcaaaagtt	ggatgctcta	agatcatgtc	caattctctt	660
	gattggaact	atgctcttat	tgaggacgtt	atgaagactg	tttcaaagtt	atcattttat	720
25	ttcttttggc	tttggtagtt	gaatgtgttg	taacttctgt	ttggtttgca	attaacgtaa	780
	gaaaggctgt	ttgtataagg	tttttgcctt	ttcaccatgg			820

<210> 730

<211> 820

30 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

35 <222> (1)...(820)

<223> n = A,T,C or G

<400> 730

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40	tcttcctact	acgttatata	gagacccttc	gacataacac	ttaactcggt	tatatatttg	120
	ttttacttgt	tttgcacata	cacacaaaaa	tanaanaagac	tttatattta	tttacttttt	180
	aatcacacgg	attagctccg	gcgaagtatg	gtcgtcgtct	tcatcttctt	cctccatcat	240
	cagatttttc	cttaaatgga	agaaacccaa	cgaaactccg	atcttctccg	ttctcgtgtt	300
	ttcctctctg	gcttttattg	ctgggattgg	gaattttctc	ccgctctctt	gcttttttagt	360
45	tgctgattct	ttttccttcg	actttctatt	tccaatcttt	cttcttctct	ttgtgtatta	420
	gattattttt	agttttat	ttctgtggta	aaataaaaaa	agttcgccgg	agatgacggc	480
	tgtgacggcg	gcgcaaagat	cagttccggc	gccgttttta	agcaaacgt	atcagctagt	540
	tgatgatcat	agcacagacg	acgtcgtttc	atggaacgaa	gaaggaacag	cttttgcgt	600
	tggaaaaaca	gcagagt	ctaaagatct	tcttctcaa	tacttcaagc	ataataattt	660
50	ctcaagcttc	attcgtcagc	tcaaacactta	cgtgagtttc	actctaacga	aaactcattt	720
	actctcaatt	taatgcttca	tttaattcgt	ttggtgaatt	gaatcattct	ttttagt	780
	gtagccaat	ttcgtaattt	tctcataatt	tgggggttg			820

<210> 731

55 <211> 820

<212> DNA

5 <213> Arabidopsis thaliana

<400> 731

	tataacgcga	aatgagatgc	aattctttta	tgaagagcag	ttgcatagaa	tggagtgc	60
	ggcgcaagag	gctgttcttt	tcgaggatat	cttatgtcag	atgattgata	tgatcggacc	120
10	tgagaacgaa	agccatataa	cgctgcatga	cctgaaaggc	tcaaagctct	ctggaaacgt	180
	cttcaacatc	ctttttaatc	taaacaaatt	tatggcattt	gaaaccggg	atccgttcct	240
	cattcgtcag	gagcgcgaga	acccgacatt	gacagactgg	gaccgttttg	cacatagaga	300
	gtatattcgg	ctatcaatgg	aagaagatgt	tgaagatgca	tccaatggaa	gtgctgaggt	360
	ttgggatgac	tcgtcactgg	aggctccctt	ctgagttcaa	agaggtagca	agtcaacaaa	420
15	agaaaatcat	aatctctaga	atggatttta	ttttttaaaa	aaggaaacaa	aaaaacttag	480
	aagttgaagg	ttatggatat	gttggttattt	catcatatta	gttaatcatg	caaaagagaa	540
	acagaaagtc	cctgagaaga	atctttggag	ctttgttgag	aaggcaagtg	aaaaaacaag	600
	ggagaagcca	gtagtatcat	acttagcttg	gagttgtttt	ctaacttctc	ttcattttta	660
	gctgatttta	caactatatt	gattaataat	cgctgcgtgt	tagctcatcg	ctttacggct	720
20	tcttcatctg	tattgcattc	actttgctcc	atctctgggt	tttttgtttg	tactttagag	780
	ctttgttact	ctcatgatct	tcagttgttc	aaaaattgtg			820

<210> 732

<211> 820

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

30 <222> (1)...(820)

<223> n = A,T,C or G

<400> 732

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35	ccatcgccag	tgatcggaga	ctcggtggtc	agctacagac	aatcgccact	gatttccaga	120
	gaatctccaa	gatccacgat	cggtgtttca	tcgggtctttc	tgggtctcgcc	accgatgttc	180
	aaacactata	ccagcgcttg	gtgtttcgtc	ataagcttta	ccagcttagg	gaagagagag	240
	acatgaagcc	tgaaactttc	gctagtcttg	tctcagccat	tctttannng	aagagatttg	300
	gtccttactt	atgccaacct	gtgattgctg	gcttgggaga	tgatgacaag	cctttcattt	360
40	gcacgatgga	ctctatcgga	gccaaagagt	tagctaaaga	ttttgttgta	tctggaactg	420
	cttcagaatc	actctatgga	gcttgtgagg	caatgtacaa	gccagatatg	gaagctgagg	480
	aattgttcga	gacaatatcg	caagcacttc	tctcatctgt	tgaccgtgat	tgtctgagtg	540
	gttggggagg	gcatgtttac	attgtaacac	caacagagat	taaggagagg	atcctaaagg	600
	gaaggatgga	ttgatctgct	tcttctatct	aagttgtttt	ccgctgtaat	ccggttttaa	660
45	gtagtgtaac	cttcacatcc	cggtttaatt	atatgatcat	tccttggctg	aaattatggg	720
	ttatgtatga	agtttgattt	tcctcttgga	taatggatta	tatgatttta	attcgtagag	780
	ttatcgaaga	ataacacttt	taactaaaaa	aaaaaaaaaa			820

<210> 733

50 <211> 820

<212> DNA

<213> Arabidopsis thaliana

<400> 733

55	ttctggcgcg	gagcgccgc	ccgggcaggt	cgattctctc	tcttgagttg	aagaaatgaa	60
	gcacaacaat	gttatcccca	atggtcactt	caaaaagcac	tggcagaatt	atgtcaagac	120

5	atggttcaac	cagcctgcc	ggaaaaccag	aagaagaatt	gcgaggcaaa	agaaggctgt	180
	gaagatcttc	cctcgtccaa	cttctggacc	tctccgccct	gttggtgcatg	gtcagactct	240
	taagtacaac	atgaagggtca	gaaccggtaa	aggattcact	cttgaagagc	tcaaggctgc	300
	tggatatccca	aagaagtttg	cgcctacaat	tggatttgct	gttgaccatc	gtcgcagaagaa	360
	ccgatcttttg	gaggggtcttc	aaacaaatgt	ccagaggctg	aaaacctaca	agaccaagtt	420
10	agtcatttttc	ccgcgtcgtg	cccgcgaagg	caaggctggt	gactctacac	cagaagagtt	480
	ggctaattgct	acccaagttc	aaggagacta	cttgccctatt	gtacgtgaga	agcctaccat	540
	ggaactcgtc	aagctgactt	cagaaatgaa	gtctttcaag	gcttttgaca	agatacgcct	600
	tgagcgcact	aacaagaggc	atgccggagc	tagagccaag	agagccgcag	aggctgagaa	660
	agaagagaag	aagtgaggtc	gttcttctta	ggtagaagaa	acttttatct	tatcaacttt	720
15	tggaaactgaa	ttttgtgtat	cagactgtct	tttctttcat	cagtttttat	ccttaaatct	780
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<210> 734

<211> 819

20 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

25 <222> (1) ... (819)

<223> n = A,T,C or G

<400> 734

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	taagacaatt	gtacaaatcc	atgtaaaatg	gagttatcta	ctcagaagaa	gggaaaacag	120
	atttgtcacc	gagaaatgtc	gaaaacttgg	gagccaatta	gcatgctctc	ctttctgcca	180
	gagtgttggg	aatgtcgaat	ccaagagtta	ttacataagc	tttagtccac	ctgttacttc	240
	atcaacatta	tcaacaggtc	caagaatagc	cattactgtc	cttgaatttg	gagcgcctcg	300
	tgtttttccc	gcatcaatgg	tgatatgggt	tggcagtttc	agggctcttg	ctctttcttg	360
35	caaaactagc	atctcttcc	cactttcaat	tttgacaaca	acttnnngct	gagcacaata	420
	ttcccatctg	ttcaaggcnn	ttggcgcccg	ttgaaggagt	ttntgtata	aacctaaagt	480
	tgcattgactg	cattgagctg	caatcttccc	tttaccatt	ttaagatcat	tcctcacaac	540
	caaaaccatt	ttgaaatttt	tgcgaaaatc	agcgagtttc	tctatctcga	ggggttcctt	600
	ggacttgggt	ttcttattcc	cgctggatcc	tgcattctatg	gcgacagatt	tggaggagag	660
40	aaagattcgg	cgggtttgtc	gtaaagtgtc	gatgtaatat	ccnnntgcag	ctccaacaag	720
	taaaacactt	aataaccaca	ccaaatccat	acctcttaa	agtcttccgg	cggctgagct	780
	gtgacaagtc	tgtttcttcg	ttcaagtttc	aacgattttt			819

<210> 735

45 <211> 819

<212> DNA

<213> Arabidopsis thaliana

<400> 735

50	ttacatcggt	taatagttaa	ctaattaaat	ctcttataat	cacatagcaa	tgtcattacg	60
	aatgtgacgg	aggataacgg	gaataacaga	atccggtgag	ctaagctgag	gaagatgacc	120
	atcagaagga	ataacctcga	cgacggattc	acagccaaga	ttggcgtgaa	gatactcgga	180
	gacaacgact	ggtacagcta	agtccttaac	actttggaga	atgtgacacg	gaacagtgcg	240
	aaaaggtaag	atctgtctca	tgtcactttg	gaaaatggtc	tggccgacgg	agagagctat	300
55	gtcgggacgc	atattgaaga	gtgttctgct	gaattcttga	acggcgatgg	agtccatgtc	360
	gccaccgacg	gcgagtggag	cgaaacctaa	gcaccacgct	ttgtagtgtc	ttcggtgggc	420

5	ttcgaatagt	tgggtttaagt	cttcttggtc	gaatccacct	tggtaatcaa	catcgtttac	480
	gtatctcgga	gaagcagaga	tcatgacgat	tttggagaag	agatcaggac	ggttaagaga	540
	agccaagaca	ccaatcatgg	cagaaacaga	gtggccaaca	aagatacaag	actcaatctt	600
	gagatcttcc	aagattgcaa	tcaaatecga	agagtagcct	tcgagatttg	agtaacgac	660
	gaagtcgaaa	tagtcagggt	tggctcgtacc	ggctcccatg	ttgtcgtaga	ggacgacgcg	720
10	gtaatcgtcg	accagatgtg	gaaccaagtg	tttccatact	gactggtccg	tgccgaaccc	780
	gtgacctaac	acgatcgtgg	cttctcctga	accaatcac			819

<210> 736

<211> 819

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

20 <222> (1)...(819)

<223> n = A,T,C or G

<400> 736

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	gagaatatga	agatggaagg	agttttgatc	tctgagtggg	aagatatccc	tgtggagctt	120
	ctcatgaaga	ttttaaacct	tgttgatgat	cggactgtga	tcattgcttc	ttgtatttgt	180
	agtggctgga	gagatgctgt	ttcccttgge	ctcactcgcc	tctccctctc	ttggtgcaag	240
	aagaatatga	acagtttggt	tctatctctt	gctcccaa	tcgtaaagct	tcagacttta	300
	gtactgcgac	aggacaaacc	gcagcttgag	gacaacgcgg	tggaagccat	agcaaatcac	360
30	tgatcatgagc	tacaagattt	ggacttaagc	aaaagctcga	aaatcactga	ccattcccta	420
	tattcacttg	ctcgtgggtg	tactaacctg	actaaactca	accttagcgg	ctgcacttcg	480
	ttcagcgaca	ctgctcttgc	gcatttgaca	agattttgca	ggaagctcaa	aattctgaat	540
	ctttgtgggt	gtgttggaag	tgtatctgac	aatacattgc	aggctattgg	agaaaactgc	600
	aatcagttgc	agtcactaaa	cttgggatgg	tgtgagaata	taagtgatga	tggagttatg	660
35	agttagctt	atggttggtc	tgatttaaga	actcttgatc	ttttagctg	tgttctaate	720
	acagatgaga	gtgttggtgc	tttggcgaat	cgggtgcattc	antngnggtc	attgggctta	780
	tactactgca	gaaacattac	agacagagca	atgtacctc			819

<210> 737

40 <211> 819

<212> DNA

<213> Arabidopsis thaliana

<400> 737

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	ttctttctcg	cttctaata	ccgtagagat	cctcccgatc	tgcaaatccg	atccgaattc	120
	tcaacgaatt	tgtagatctg	atctgtgatt	ccatcgttga	cgacggatct	tcgcttacat	180
	cgtttgatct	gtcgcagatc	tgccgttttc	tatagatcta	gatctggatc	gtccttcgcg	240
	gttctttcac	atgcaagatt	ctgtgaattg	ttcaagttga	ggcatcattt	ctggattact	300
50	aggagacgaa	tctgttgacg	acggatgtgt	gtgtgttgga	ttgaattgag	attagggtgt	360
	agaagatggt	ttgtggatag	ctaatagctt	cctgattgca	tctctgtcat	ccgacctttg	420
	ccatgtcagg	tgcgcttgca	tggcagggtc	aaaaactgat	cctcaataaa	aaaaagattt	480
	tgtgggtttt	ggagaggagg	tcgcacgggt	tattattttt	tcccgggatc	tcttctctct	540
	tgtgtgtgtc	gtcttgcttc	tgctctatct	ctctccctgc	tctttcacat	ttcatatctt	600
55	tcttaaatgc	tcatatacac	tcaaaaaccg	atcataagca	gagtttgtaa	ccaatatgga	660
	gcagtgggcg	attacaaatc	ttcttgccca	acaacctcga	gagttaaate	aggtactcat	720

5 atccatatta aatcgaattc ttaattagca taataaggta aacataatct gcaagaggaa 780
 ttctggattt aaataaacca taatccggtt gccctaatt 819

<210> 738
 <211> 818
 10 <212> DNA
 <213> Arabidopsis thaliana

<400> 738
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 tttcgccgca gcttctcttc ttctcccttc atctcaaacc attttcatcc gatctcaatc 180
 ctcgaaatcgt cgggtctaact ctaaccatct cggagtaatc tacgagattg atatcgctgc 240
 ggatcctctt gtcaataagt tggaagatgc tgtccaccgg attatggtac gccgatccgc 300
 acctgattgg ctcccttttg ttcccggtgc ttcccttttg gttccacctc ctagatccca 360
 20 gtctcatggg atcgctaagc tcgttgagaa gctggccaat ccgatctctg atgaagaatc 420
 tatttcaatc tcatcggttc gaggatggcc ttgctctgat tacttcatca aagggtgtaa 480
 gcctcaatca gttgagacgg agatgacttc aaatactgca tatcactccg aggacgagga 540
 ataaacccca aaactcgtca gggctcttgc tcttcaagat ttgtagattt atgaacacga 600
 atcaacgaag attcgaatca ccaagagcag ctgcaaagac atgggtttaga cttttagata 660
 25 aggttagagta aagcaaacct ttacagact gatcagatcc tatccagtct tagtgaaatt 720
 aaataaggaa aagggtgctgt tgctttgccc tctgttttct tgtaatctcc cttataacag 780
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<210> 739
 30 <211> 818
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 35 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 739
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 gagatgtcga gatctcagtt ccttgtagtg tttttcaacc attctaaata cttgtcgctc 180
 ccaccagtga tgggcaacgc aattacttct ggcacactaa aggtaacaag taaaccatat 240
 ttattaactt agcttgtgtg attgctaaaag aaaaggcaag acactcgcat tactcatggt 300
 45 tttatatgca gaatacgtca tagaacaatg cttactcgta ttctgtgatt gcattgacat 360
 gctcgggttag aggttctaga agggattgcc ttgttttgat tatcaggagc tcctctgaat 420
 cactctgaac cttccctcc cactcgtaca ccgattcaat gccaggcaca atgttcacac 480
 acgctgcaag cttttcctgg acaatgctgt tagccaactt cttccctgct tctctgttag 540
 gaacagtgc atagacaaca atgctgggca cagttttgct gctctcctcc attctgatcg 600
 50 acgaagaaaa agccttactg cttaaacttag accttaagag aggaacaaca gagaaagact 660
 gtgcacaacc cgatttgaag ggagatgaag aagaaaagaga agagattgag agagttgaca 720
 gaacgcaaaa cgctccgacg atcggaaaac tccgtcgaga tccgattacc gccgataatc 780
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55 <210> 740
 <211> 818

5 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature

10 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 740

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	gttacaagtt	tgatccaaat	ggtgaatacg	taaggcgatg	gcttcctgaa	ctctctagac	120
	tcccgcagaga	ctggatacat	catccgtgga	acgcacctga	gtccgttctt	caagctgctg	180
	gtatcgagct	tggatcaaac	tatcctctac	caattgtagg	attagatgaa	gcaaaagcac	240
	ggcttcatga	agcgctttca	cagatgtggc	aactagaagc	tgcttcaaga	gctgcaatag	300
	agaacggatc	ngaagaagga	cttggagatt	ctgctgaggt	agaggaagct	cctatagagt	360
20	tcccgaaggga	cattacaatg	gaagagnnng	aaccaaccag	actcaacca	aacaggagat	420
	atgaggatca	gatggttcca	agcattactt	cttctttgat	cagacctgaa	gaagacgaag	480
	agtcgtctct	taatttgaga	aattcagtag	gagatagcag	agcagagggt	ccaaggaaca	540
	tggttaacac	caaccaagct	cagcagcgga	gagcagaacc	ggcttcaaac	caagtcactg	600
	ctatgattcc	agaatttaat	atcagaattg	ttgcagagag	cactgaagac	tcaacagcgg	660
25	aatcttccag	cagcggaaag	agagaaagaa	gcggaggcat	agtccccgag	tggtctccag	720
	ggtactcaga	gcagttccct	agtgaagaaa	atggtattgg	aggaggaagt	acaacgtcta	780
	gctacttgca	gaatcaccat	gaaatactga	actggaga			818

<210> 741
 <211> 818
 <212> DNA
 <213> Arabidopsis thaliana

<400> 741

35	tttttttttt	gatttaaatga	aattatttga	taattattaa	caacataacc	taaaacttaa	60
	ccaatgaaca	attagaataa	tctaaaaccc	tatacaatga	aatgttaaag	acaagtttat	120
	gttattcccc	tttttgtaca	agcttccaag	tcttatgaac	ataaaaagca	aacgcaaatt	180
	tcgtgcgttt	ttgtttcctt	gatgtcaaac	gtagtttctt	gccaaacaaa	ccacataagt	240
	cagcaagcta	gctgagatcg	atatccactt	tttccggtac	acacctttct	ttttggttct	300
40	taccaagctc	tgttccaagc	tgaccctgat	cgctgcacc	aaacgcgaat	agcttccccg	360
	attccgtgag	cgcaaagtga	tgagcgttcc	agtatatgga	gttcgttaga	cttatctgga	420
	ccatccgctc	gttcacttgt	tttagcgatg	ttactaccgt	tggaacttagc	acgtttgcat	480
	gtcgattacc	ctgttcatca	aaggatggat	ggtgaccgag	actagcggat	tcgccgcagc	540
	caaacgagta	aacatcacca	tcgtctgaga	ccacaaaagt	agtgtagtct	cctgttgcca	600
45	catgaactgc	tttgacatgg	cttagacctt	caacaacctt	agggaactgat	tcacactcct	660
	cgttaccgtg	acctaaacat	ccatatcttc	cccaacccca	agtgcacact	cttccatcct	720
	gacctaccac	cgcgcatgc	caagcaccgc	ctgcaactac	cctaggttga	agattcaata	780
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50 <210> 742
 <211> 817
 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 742

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	gagacattaa	tccaaagaag	caaacattga	gccaatgcca	tagcttttgc	acaagactaa	240
	gtcatcatt	catagcaaca	agatacatgt	gattcgctaa	tatgaatgtg	agagggaacg	300
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	ccaatggact	tcctttgact	ccatactttg	tgtccatata	ctcataagtc	ggacttgcaa	480
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15	atccgatgaa	tgtaaccgcg	tacataggta	aaacaccaac	agtgaattga	aaatacagag	660
	ctttcatcat	gttttttaacg	accggttgct	tcaccgtggc	ctgtatttcc	gggagcattc	720
	ccgtgttgaa	tgcgaaaact	agatttgcag	ctgctcctgt	tatggtaaag	agtttgttta	780
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	attgagctct	atcctcgaat	tctcttatta	gcttggcaac	tttatctatc	tccggcacca	180
	cattcttcac	tgtttcatct	gacaaaannnc	ggttggccca	tctataaaga	gaaggagttt	240
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40	gaatgaacga	tccagatgag	ttccacgtct	cgtctatgta	ttcaacgatg	tttagagact	600
	cacaaaccga	tttattactg	tggatgagaa	ccggcacttt	cttgtaaacc	gggttcgatt	660
	tgagaagaag	ctcactctta	gatccgaaca	agttctcttc	aacgtaatca	taatcaaccg	720
	atgtgagacg	aagagcgatc	tttactctta	tcacgaccgc	actgtaccat	gttcccaaca	780
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 <213> Arabidopsis thaliana

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	atcacattat	attgaagaag	agttggcatc	ttgtctccat	ccaaacgcaa	cgtgtcagta	180
55	gtgaaataca	aatcagacat	gtggggatga	gtaacctaaa	ggattccgat	tcagcctccg	240
	ccgtacgagc	tcgattctgg	tgaaagagtc	accgtcgata	caaaaatcga	aacatgaatc	300

5	tttgagtttt	caccagaaat	aggacaatcg	aaactccaaa	ctgaaatata	gcagctaaag	360
	gaattgtgta	atatgcttcg	aaatcttctt	cttctcttca	attataaaact	gcaaactctta	420
	ataataattc	ctgtaaaacc	aagcttcaaa	caacatgagt	cggataatca	acagttttaag	480
	caacatagca	cctaaatcgt	tatcaccaac	acataattgc	tgaaattatt	gaaaggaaaa	540
	caaagaccaa	aagggtgagag	taactcatct	atggccaaag	taaaactaaa	atccgaccaa	600
10	caccgctgat	ggagccgtat	gctgtcggga	aaagagtcgg	ccatcttcac	tgaagaagct	660
	ggaggtgccg	aacgagagcc	cgattaaaaac	gggacgtaag	agccgaacat	cgctgctgtg	720
	aaagtcagac	gatttcggag	tagagccgac	caatcaacgc	taaaaaagcc	attgatgtcg	780
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	atcaccagaa	gcataccag	gcttatgtta	ctaattacaa	taatgctctt	gagcagcttg	180
	atcaagctgt	gaacaaggga	gatgcttcca	ctggtgttaa	gttgcagagc	gccatcaa	240
25	tcaacggcgg	aggtcatgtc	aaccattoga	ttttctggaa	gaaccttgct	ccttccagt	300
	aagggtggtg	agagccacca	aaaggatctc	ttggtagtgc	cattgacgct	cactttggct	360
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	gggtgtggct	cggactagac	aaagaactga	agaagctagt	tgttgacaca	actgccaatc	480
	aggatccatt	agtgacaaaa	ggaggaagct	tggtagctct	ggtgggtata	gatgtttggg	540
30	agcacgcta	ctacttgag	tacaaaaatg	tgaggcctga	gtatctgaag	aatgtatgga	600
	aagtgatcaa	ctggaaatat	gcaagcgagg	tttatgagaa	ggaaaacaac	tgaatcgttt	660
	acacgatgac	ataaggagat	gaaccagttc	cagctcagct	tttgttttta	ggttgtctga	720
	aacaaactta	cagtgtctct	ttggttttta	agatttgctc	aactcagctg	tgtggtacgt	780
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	atgcattact	agtaactcga	gccacatgaa	ccactcttct	tctaatacgt	gatttgacca	300
	caccgtccat	aacctttcca	tcgaaacat	ccagacacgt	tgtctcatcc	gttaaggcag	360
	cactaaccca	agtctcaacg	ttacttagtc	tccacaagaa	ctcgtctcga	tcacgaccag	420
	atcgaccaac	ttgcttcaac	tccctcatcg	actgagccaa	catctctaaa	ccgtctccaa	480
55	gattttcaac	acaatccttc	acggctaagt	actctctcct	tttgattctc	ctagcttttag	540
	tcagcttccc	tacatagatt	gtcgtggact	gaaccgggac	tagagtaacg	gctaaagcgg	600

5 tttgagctaa ctggtttttcg ttgcnnnnga ttttgtctgc aaaagcggca aggcatttga 660
 cgcagagagt ttggtaacgc gtgannnggc atgatgagac aatgaagttg atgctgctgc 720
 tagggtttgg tgatgatgaa ggtttggcta tgggtggattg gcagagtagt ggaagaaaaa 780
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 25 aaagcagaca acgtcaaaact ctatgggaaa atccgttatg tccaagacta taaccatgat 300
 aaagtgtttt cccgaggatc gaaaaagtat gtggaagatc ttgaaagtgg attcagctcg 360
 gatgtcgaat caaaatacaa gaaaattttac gaagatgaca tcaacccttt tgcagcattc 420
 tcgaaaaagg aaagagagca acggatcaaa gatttgggaa tcagagatcg gattacgcta 480
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 30 ataggattgc acgtccttgt cttcacttgt ctctaccgta tgtctgctta cagttatctc 600
 agccatggag cagaggagac tctaatagaca gaagcaacca caaaccttnn nnnccggtctt 660
 taagctctca ccctagggac ttattcgttt ttggtcggtta tgttctttct tgtccttgta 720
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 atacatatat aaagccacag aaaaaacttc cttcag 816

35 <210> 748
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 <212> DNA
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 ctcaatcgaa gctaaaggga ttatatagac aattattgtg tgtgtttgaa tataggacgc 180
 50 agatataatg tggcttagag atccatttcc tcggttatat ccagatggag acttccaaat 240
 ggcgtgtgac agattctttg gaaatcctta tgattcagac aattgggtca atgggtggtt 300
 cacatacgtg agatcaaaca atcgaagcat tgagttttac aaattttggc acaaactctg 360
 tctagattat ccagacttgc atgatcaaga tgtgttcaac agaatcaagc atgagccttt 420
 tatctcagag attggaatcc aaatgagatt ctttgataca gtttactttg gtgggttttg 480
 55 tcaaacgagc agagacataa acttggtttg cacaatgcan nntaattggt gtattgggtt 540
 ggacaagaag cttcatgatc tgaatcttgc ctttgatgat tggagaaagn nnctgtcttt 600

5	gtcagnnnca	gtgcagaaca	cgacgtggag	tgnnnctatg	aagtgttttg	aagattgaga	660
	ttcnccttctt	tctttgtttt	gttgagattt	ggatgaaaag	tatatTTTaaa	aatgaagagt	720
	ttattgttctg	tgcaaggaat	attcctttagc	tctctaattct	aatcaaatat	ttttttttgat	780
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	ttgcaagtc	aagtcccaaa	ccttctagct	caaagagagt	ctcttcacgt	tccacattcc	240
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	gtaactatca	acaacccttg	agttcaatag	ctcgataatt	ggagcaaact	tcacgcatct	360
	cggcgtctta	tactgattaa	tcgatgctcc	caagctgatt	gcgtaatcca	tgagcttatc	420
	gaatgtccct	ggctcaacaa	tcttgatctc	aagcgggcct	atggacttgt	cactaaccct	480
	tccttgtcta	taaacagtgt	tgaatgactc	ttctacagct	aagcagcagt	cctcgaagac	540
25	cgaaggagg	atcgggtgtgt	ttccatccaa	acatagctcc	caaaacagga	cataatggcc	600
	tgggatggaa	cttgtgtctg	catagctcgt	gtactcagag	agtgaggcat	caaatgggac	660
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	atctatgctc	aagaccacat	ttttgcgaca	tatgaaactg	aattgaggcg	ctttgttctt	780
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	tgacttgcaa	ggacactcaa	caatagccac	gcgaaagaaa	aataatccaa	aagaaaaaaa	180
40	aagagttgaa	gagagaatat	gagacaagaa	gagctaatac	acatccactt	caataattca	240
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	catgcttcac	tgctgttgct	gctggtatcc	accaggctgc	tggtagtttc	catagccgcc	360
	cccagcataa	ccaccgtagt	aggcgttagg	gtcctgagga	ggagggtgcat	atccgtatgc	420
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	aaaaactgac	ttcaaactcat	cttctgttac	actttgatcc	acagctccaa	caaaaattgt	720
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   cattgattaa taaaagttaa agtagctctt ataacaccat ctcatattggg gcaggtaggt      180
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15  gaaaatcctg gtttcaagac cggctttaga acggagccct tgcctccatc gtggagtgac      300
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   ggaagagttg gtagtttgat tggnggtagg ggaaggtgtt ggnnnaggct atggaaggga      780
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10 ggtcgaagtc tcacatccca cagcgccagg tttattgggt ctaaagtctc caattcaggg 300
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ttttcacttt tgttactatt tttacccttt tgtagatat gtacatatcc tgtatgtgaa 720
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30 cgcagaaaat ttgagaaaag ctttctctga ggcagaagct agaaattccg agctggcgac 240
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50 aagacatata tagagtcgac atgggttttg ctctttttta agtactaagt gattggtaac 180
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55 ctccatagct cacttttact ggatcagctg gataacaaga cgacattcca acaatgtaac 480
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5 caccgttctc tcggtataga gcaccaccga taccaccagc gtgctgggtga gctaccccgt 600
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25 attagagagt ctctatagc aaaccattcg tcgctaattc ccaactgtct gttaaaacct 540
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<210> 757
<211> 814
<212> DNA
35 <213> Arabidopsis thaliana

<400> 757
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40 aaaacgaact ccctcaaaga acacaaagct cacacaaacc cccaagtca acatctcctt 180
gtttaaacag gtagtgagta cttagcggaa acctccttc acgcagcacg gctactaatc 240
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<211> 814
55 <212> DNA
<213> Arabidopsis thaliana

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<400> 758

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	cagaacacaa	catgtcaata	aacctgtaaa	cactctctct	aacttggcaa	tagtctcaca	180
10	aagtaacgta	caacataaca	tgttcacgga	tagccatcga	gcacgccttt	gagtaggttt	240
	aacccttccg	cagatatgct	ccgcctcacc	cgtgactgca	ttcggatctc	tatcctctgt	300
	ggaggatccg	gagagaagca	cacaacaatc	actgtcaa	tgtcacatgt	attccgttta	360
	agggcctccc	tcacaagctc	tctagagcat	ctctctggat	cattatgaat	catcagttcc	420
	ttcctagcta	ttgtcacagc	gcactggctg	ctcatcacat	cccacagacc	atcacatccc	480
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	gatagttgcc	cgttgaggta	accgtcatac	acaactccac	ctaacttttc	tattcttact	660
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	cccagtactg	ctcggcaatc	accagcattt	gcaattatca	acctccgtcc	aaaaataaaa	780
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<210> 759

<211> 814

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc_feature

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30 <223> n = A,T,C or G

<400> 759

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35	tttcaactca	ctctaactatg	ttcttgtgac	taatcgattc	ctaataactcc	agtgcaaagg	180
	gatggaagtg	aaatcagcct	aaatgtttct	taatcattgt	ccatattgcg	tttgcgggta	240
	ataataacta	agtagcttct	tgaagagagg	aacaatcgca	accatagcaa	gttggagctg	300
	ctcggagctg	ttaacacgaa	cacttacttg	ccctgctcct	ctattgttca	gattagcacg	360
	agcaattaaa	ttagaggaac	gtccaatggg	aacctgagac	tgtatgttcc	ctccaatagc	420
40	aagatcaccg	tgccaatcca	ttacagaaag	tccaagagta	gtcaaaaacc	gaccaagcgg	480
	ataatcttta	tctctcaact	gagctnnnaa	agtaccacca	taagcaaaat	ctccccgact	540
	agtcatagct	ccaccagaca	ttacgattct	gaaccattta	ctagcaataa	acttatcttc	600
	gacttttcaac	ccgcagaaa	ccgaatcacc	caagtgtgtt	acagaaagac	cagctgcagc	660
	cttgttttctc	ctgaaattgt	taaatctcgt	ttcgtcttga	agagtataag	ccaattcctt	720
45	tccaacagtt	tgcattgtcg	aacctagggg	agttgattta	ccctctccat	gtttaaccga	780
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<210> 760

<211> 814

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

5

<400> 760

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	tctccctgtc	atccaaacca	caaccaaacc	gagtcctaat	tcccaaattc	gccaaacttc	180
10	cccaaattcc	caaatccctc	acttctctca	ccgatctccg	tagcaaagca	ctatcactct	240
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	aggcgatgga	gaaagcacag	ctcttcgatt	tcaatctcac	gcttcctgat	atcggtgttg	360
	agtttctctt	cttgatgttc	gctctcgaca	aggtctatta	ctctccgctt	ggtaacttca	420
	tggatcaaag	agacgcttcc	atcaaagaga	agctcgcgag	tgtaaggac	acttcgactg	480
15	aagtaaagga	gctcgatgag	caagccgccg	ccgtgatgag	agcagctagg	gctgagatcg	540
	ccgccgcgct	taacaagatg	aagaaggaga	ctcagggtga	agtcgaggag	aagctagcgg	600
	agggaaggaa	gaagggtggag	gaagagctaa	aagaagcttt	ggcgagcttg	gagagtcaga	660
	aagaagaaac	cattaaagct	ttggattctc	agattgctgc	tcttagtgaa	gacattgtca	720
	agaaggttct	tccttctnnn	attatatatt	tgttaactgt	gtaattctct	gtctctctat	780
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<210> 761

<211> 814

<212> DNA

25 <213> Arabidopsis thaliana

<400> 761

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30	tgatggaatg	ggacaggata	aaattctaag	actcagaagt	cgaagtcgca	cttgatcggg	180
	aaaacaatgg	aggtagttgt	agttccgttt	gaggtactta	aaggaagcct	tagatcatcg	240
	caatcaacct	taggcttaat	cctcctaaac	ttcaagtccc	caagcttaaa	cctaacccta	300
	agcctgaact	tgatctctat	attgtatata	ccggatatcc	tctccgcggt	taaagtccta	360
	gactgtccgg	cgtaaataat	aacaagggtt	tggccttgga	acgttggtgt	gagaacgggt	420
35	gtgtttttgt	gtccttgata	gaaaggagtt	aacgtgatgg	tactaaaccg	ctttccctcg	480
	tagtaggcat	gagcttcgat	cctatcgtag	tagagtcoga	tcctcttggt	tgggttacgg	540
	acaggaacag	tgagggctag	gttatacctt	aaaatgttgt	ccggggaagt	gtggtcaaag	600
	cgggtaaggg	acgcacgggt	cacgtgaaac	ttgatggcac	gaggtcggac	gatgagccag	660
	aagatgagag	cggctacgcc	gaggatgaca	ataagggata	tgattacttt	gacgaataag	720
40	ctgaggaggc	agcagccaca	gccacgaccg	tgcccacgtc	ggtagtagcc	tttgggagct	780
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<210> 762

<211> 814

45 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 762

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	tggtggaaga	aggagcatct	ggctgctttt	ccggtagtgc	attttgaaac	acaggcagtt	180

5	ccttgtatga	ttcgtaacat	tttgcaagat	ttgggtatgg	ttccatgtta	atctggaatc	240
	tggttgattgc	tccgtggatc	tgtgggtgcta	gaaagagatc	agccaggtaa	atttcatcac	300
	cagtcgcaag	tttcccagcg	caattcacca	acagtttctc	gagagctgta	aatccttttg	360
	tgatagcatt	attaacccaa	gcagtcttct	cctccacatt	tatcttttcc	tcgatatacc	420
	taataacagc	cagattttga	tgaggetgta	tgccagacaa	gacaatactc	attgcctggg	480
10	aattcacagc	tcgtttatgg	aggtcacgag	gtaacaaagg	tggttcaggg	tacttctcat	540
	ccagatactg	tcaatccaaa	caccacaaaa	ccgaagatcg	atgaaatgtt	ctttttaatc	600
	aacaatacca	aaaaaaagtt	aaatggatgt	gttactactg	accattatta	tcgcaaaaga	660
	atcattaatc	acaacatctc	catccaccag	agctggtaca	gttcccattg	gattgatctt	720
	cttgaaatct	gaatcgaa	gatcaccctt	gagcaaatc	actggtatat	actcataatc	780
15	aagccctttc	aaagcgaggg	cgatacggac	acga			814

<210> 763

<211> 813

<212> DNA

20 <213> Arabidopsis thaliana

<400> 763

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25	gaccatctct	tatcgacaga	agctgtat	gtctgaccaa	cgtagtgtag	tggtggttcc	180
	gatttttctc	aggaatccga	gcataatctt	ttagcataag	ttgtgagggc	gatagtgctt	240
	tgcacaaggg	aatcaagggt	agcttcatat	ccaggtctga	catatatacc	cgaaggatca	300
	tcgcccgcga	tttctggcag	tggtgaagct	cgattttccc	ggcttgatgg	caaaatccag	360
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30	gcgatagaag	tcattgattct	tccatctact	gagagggcca	tgctcgcgtg	cctttggaca	480
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	agatcacgca	gagagacatc	gtactgagtc	ttccaatttc	cattccattt	gccttacta	600
	ggagataaag	tgatcagacg	cttactgtgt	tttgagctcc	ctcctccatt	aatggctgcg	660
	gaagaagctt	ggtgtttctt	ggagagggga	gaaaagggga	ggtgatgagt	attgccggaa	720
35	actttaatct	tcgagttcaa	aagatttgga	gagatcaaac	aacgtacatc	catggatgat	780
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<211> 813

40 <212> DNA

<213> Arabidopsis thaliana

<400> 764

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	caaactcttg	tctgtttatc	tcattctctc	cacgaccgaa	cccatcaaaa	catatgtcgg	180
	aatcaccacc	gatttttctc	gccgattaaa	gcagcacaat	ggagaaatca	gaggtggtgc	240
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	tttaagtcaa	gcttcttcgt	ttgaatcaaa	atggaagatc	ttttcaagaa	agttaccgcg	360
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	accaggtaac	caaacgacta	acttaattaa	tcaccgatgt	gctctgcagc	ctcacaagat	540
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	atgtgggttt	aacttgtcat	atggcaatag	tttgaaaact	acattgcaca	acctcatggg	660
55	cattgatatt	ttgtagctgt	tgtaactttt	aagaatgata	gacaaaagtc	aaaacaaatg	720

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10 <212> DNA
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15 <222> (1)...(813)
<223> n = A,T,C or G

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25 aggcaatgcc actgtaatgg ttcaagatca cagcagactt ctcacgtcca acggagattt 420
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30 cnnncattgt attctttcca atatttcccc tcttgcgcgc catggctatc gccggtaaga 720
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50 ttgatatact atttgttatg tgcacagatc cagtgtatat aaacctcatc attaatctaa 660
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55 <210> 767
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5 <212> DNA
 <213> Arabidopsis thaliana

<400> 767

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	ttcacaaata	tctatccttg	tgaataagca	tgatcagtga	tgatgaccaa	tgaagtcttt	780
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25 <210> 768
 <211> 813
 <212> DNA
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30 <220>
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 <222> (1)...(813)
 <223> n = A,T,C or G

<400> 768

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	tttatagcat	tcaacttata	tgcaagaaca	gattttctagc	aggggagttg	atccttgtag	180
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45	ggacctttgc	cataccattc	tacacggtcc	agtgtttttt	caatgtggaa	ttctatacct	660
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	ccggaaccat	agatcagata	tgtcacattg	actttgaata	aggcatctga	ctttgaagag	780
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50 <210> 769
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 <212> DNA
 <213> Arabidopsis thaliana

55 <400> 769

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gaataccacc gaggcaagca tgtcgaggta gtaggatcgt gtagcaagcg attgtagttt 600
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20 <210> 770
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25 <400> 770
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accaatattg taaacaagac acaaacgacc aaacaaataa caaaaactaa aaagagttgt 120
tgaatcacac aaaaacaaaa gaagaagaaa gaaacagaga tgaattgtta caaagatata 180
aattcaataa aggcttagaa acatccacac gttgcctttg gtactacacc agtggctcta 240
30 tacttagcac ccatttcttc agctttgaga agctcttctc ctttttttagc ttcaaccatt 300
gctctcttct cttctgctaa cttgtggatt gcagctactt tgttcttcat ttctcaccg 360
tactgcgctt ttttcttctc taatttttcc tcatcttcc taagttgagc ttctacggct 420
gctttcttgc tatttttcca agcatgcaca tcagagatct tcttttgtgc cctgtttctc 480
gcctttgact tctcactctc ttcccatgct ttgatgaatg acgttttctt ctctttttcc 540
35 aagtcggcaa gtatcacatc tctatcggcc gaaccagatg aagctttctt aggtgtatgc 600
tcctcgatgg gtttttctac aacggcaaga gctttggact cgacgggagg tggattatga 660
attttctcat ccgcgacttc caccggagca ggagtcggtt ccttcgccgg agctaaaaca 720
gccggagatt ctacgtcaac cttactcgtc ttttgctcct ccgccattgt ctctcagccg 780
aagaagaaga acagatttta tcggacgcgt gg 812

40 <210> 771
<211> 812
<212> DNA
<213> Arabidopsis thaliana

45 <400> 771
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atgttctctga acaggaggtg ccaaaggtag caacagagga atcatcggca gaggttacag 120
atcgtggatt gttcgatttc ttgggaaaga agaaagacga aacaaaacca gaggagactc 180
50 cgatcgcttc agagtttgag cagaagggtc atatttcaga gccggagcca gaggttaaac 240
acgaaagtct tcttgaaaag cttcacccgaa gcgacagttc ttctagctcc tcaagtgagg 300
aagaaggttc agatggtgag aagaggaaga agaagaagga gaagaagaag ccaactactg 360
aagttgaggt aaaggaggaa gagaagaaag ggtttatgga gaagttgaaa gagaagcttc 420
ctggacacaa gaaacctgaa gacggttcag cgtcgctgc ggcaccggtg gttgttcttc 480
55 ctctgtgga agaagcgcat ccagtggaga agaaaggat tcttgagaag attaaggaga 540
agcttccagg ataccaccct aagaccaccg tagaggagga gaagaagat aaagaataag 600

5 aagattatca ttaaagatat taagaataat gatggttgat ttgctttggt tttttttttt 660
 ttattgtgat gattgatcat cttttgcttt tgtgatgtgt aagtttggtg gcttttttgt 720
 tgattacaat ttcttatttt ctcttgata tggtttttaa aaacaaaaga tctcaaggta 780
 ttttaatggt atgaatattt tcatttgatt aa 812

10 <210> 772
 <211> 811
 <212> DNA
 <213> Arabidopsis thaliana

15 <220>
 <221> misc_feature
 <222> (1)...(811)
 <223> n = A,T,C or G

20 <400> 772
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 tctagtattt atcatgtcct ctaagacaaa cggaatacac aagtatgcat acatcaagac 180
 atatattgca tacataaatt aacacataag tttgagcata tctcttacta acttgatca 240
 25 cagtggaggt ctctccaacg agacataccc gaatttgctt ttgcgaaaat ccgttagtat 300
 tctaaatgca gcttgatgac tatctccacc aaacaaatta agaccaagcg tcttcacaaa 360
 tttttcccg cagttgcctt ctagctggat cttgtatcgg ttgtaaagag cctttgcgcc 420
 tacttctgga atccgtgcta acatnnncac aaggattcca gcaacatcag tgaagtcata 480
 agctttctct ccaatgtcat cacaaattgc cagctttata gcagctgctt gatcatcgat 540
 30 acgcatagga agcattccag gtgaatctaa gagatcaaga tctttcccaa gcttgaccca 600
 tttcatttct ctagttacac ctggtcttgg agctgctgcg caaatttttc gtttcaatag 660
 acgattgatc agagatgatt tcccaacatt aggggatcca attattccag ctctaactga 720
 tctagggaga agtccttttt ctgcgcgttt cccatttacg tcacctgcta aacttttggc 780
 taaccgacct agcttcatag ctcccatccc a 812

35 <210> 773
 <211> 811
 <212> DNA
 <213> Arabidopsis thaliana

40 <220>
 <221> misc_feature
 <222> (1)...(811)
 <223> n = A,T,C or G

45 <400> 773
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 gtatgagaaa attatgtttc cagtataaat aaaagaactt cttaaacggg aacggctacg 120
 ggtaaacact aaggtgctcc ttctcctgca ggtccgggtc gagcattcaa caatgggtgc 180
 50 agagccttca cgacaatact catgtttggt ctgaaatcag cttcgtattg tacacacaat 240
 gcagcaacag cagctaactt agcaacagct tttggagggt aatctcctcc cagtcttgaa 300
 tcaacacact gcttaacctt gtcttcgctt agctttgggt tagcccatgt gactagactt 360
 tgctggcctc gaggcaatgt atgatcaaca ggctttcgac ctgtaagaag ctcgagcagt 420
 acaactccga aactgtatc gtcactcttg gcaactcaat gccagtcac tgcatattca 480
 55 ggggcatggt aaccaaagg tccaagaaca cgagttgaat gaaggcgtgc tgccatatca 540
 ggagcttgat ttgagagatc aaagtcagct atcnnnnnna catcgttatc aaagattaga 600

5 acattgctgg attttatgtc acggtggatg acatgtggat ttgccttttc atgtaaatac 660
tcaagccctc ttgctgctcc aacagcaatc ttcactcggt gatgccacga caagagtggg 720
ccaggctttg ctcccttcac acctttttct ccgtaagaa tatcatgaag agatccattt 780
tgggcaaact caaagacaag cggacgcgtg g 811

10 <210> 774
<211> 811
<212> DNA
<213> Arabidopsis thaliana

15 <220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

20 <400> 774
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caaaaaataa aacaagttga agctgaacag gactctagcc acatccattc ttataacaga 120
cttagatacg aatgatcagt aaataactcc tatcatccaa ccaaactgta tcttttggtt 180
ggagtaatta gagatcttac ttgatttaaat ttagaagaat gataatttag agaggcacag 240
25 ggtaacggtt gatgcaatcc acccaaggat tggtcctggt tggcttcttc accttcctca 300
ttgccttcca caccacactg ttacacttan nnccagaacc gaaagcgatc tgccaaacct 360
tatcgctctc acgaacactt tccttggcct ccatgtaagc nnactcatac cagattccac 420
tgctagaagt gtttccaaac ctgtgaagtg tcactcctaga agcctccata ttctcttcac 480
tcaagcctag attcttttgn nnctcttcaa gcactacttt gcttgccgcg tggaagcaaa 540
30 aatgctcgaa ggcgagcttg tagtccggga tgtatggctt ggacagatcg gaagaggaag 600
acttgattcc attggttttt gcggtggcgg aagtagagaa ggaagtgggt gtggacgttt 660
tggcagcagg tgagaatggt cggcggagca aagcagcaaa gaagagaagc tgctcggaga 720
aaggtaggac aagaggacct aaggtagtga tgtttgtctt gagagcttca cctccaactt 780
ccattaagtc tctacttatc cggacgcgtg g 811

35 <210> 775
<211> 811
<212> DNA
<213> Arabidopsis thaliana

40 <400> 775
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aaaaaaagaa aacaacaatg tgaacacatg aaattggaag aaagtgtaaa tacttgaaac 120
ttttcaatct aaagggtttt acagtttgat gtgatctcaa ataacaaaaa aaggtaatac 180
45 gaactcataa actgttggtc aaaaagggaa caagagaaac attgtcaatc taattcagtt 240
tagatgaaga ggctgcaaaa cccgaactca atcttggtgt ccgtttcacc atcctcatct 300
ggagcagaag ttccctcaga atatgtgcac caagtcatac gcaaatgtcc agaacagcac 360
aaacgacata aggccacca gaaaaccgtc aaaaagaacc cgattccacg aatcaaagta 420
caagtcagct gagaatcctg ccttagccat gagcccaaca gatgtgatca acatcaccac 480
50 aaagtaaaat acaaaaccaa tcaagccatt gaatccaatt attcctgcta agacaccagc 540
tatgatagac agaaacgtcc ggctgttttg aatgactttc aaattgttct gcaaattctc 600
tgactgaaa gttgggtatg cactcatgat atcctttgat ctcttctcag atgaacccat 660
ttaagataac aacaataatt agaaacgaga gtagtaagag gaagatcgaa gtagcttgct 720
ttggtaactt ggatgaattg aatggagagg atgagccaat ttgagagaga acaatcagac 780
55 gaatatcttt aagttcttta cggacgcgtg g 811

5 <210> 776
 <211> 811
 <212> DNA
 <213> Arabidopsis thaliana

10 <400> 776
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 ggtttcgaaa aacaacgaac tatttgttct ggacaagctt ttattgaaca agaacttgca 120
 actatatggt ctggataagc ttttattgaa caagaaggta gcaacaacta ctaaaagagg 180
 ggtaggcttt tagggaaacg aacctgcac cattgcttct catacgtaac caaatggctc 240
 15 caacctattt cctccagcaa atccagttaa agttcgtaga gtttcttatt cgcagtctcg 300
 ttctcgtttt ggatcaagtc atcaagtacc ttcaatgcgg tcccgagtcg tgatagccgt 360
 ttctctctta gaacagtgc agtaccgtat ttagatgatt tcacgtctac ccattttgtc 420
 agttctttga aattctcttc gaatttatcc ttctggttac tttcttcttc tccttcacct 480
 tccttctcac ccttcagatt ctcgattctc gccatggcta accctttctg gtatagtgc 540
 20 tccgccagtt gatcacgtgt caacctcatt tttttcttca atttctctgc ttcattcatc 600
 tctggttcag ttttgtctag caagaatctt gctagctcat ctacgtcaac actgcgtact 660
 acttcgtttg cagcttctat aatctcttcg tgatggctga ttttgtcccc agcatcagac 720
 cgagacagta aaccttcag gatcttagct agtaatggag tatagtctgg gtattcagac 780
 ttgagacagg tacacaactt tctccactct g 811

25 <210> 777
 <211> 811
 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 777
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 aactatggaa agacctcaa gggaccacgt cgtccttacg agaaggagcg tcttgattct 120
 gaattgaagc tggttggtga gtatggtctg cgtaacaagc gtgagctctg gagagtgcag 180
 35 tactctctta gccgtatccg taatgctgct agagatcttt tgactcttga tgagaagagt 240
 ccaagaagga tctttgaagg tgaggctttg ctccgtagga tgaaccgtta cgggcttctt 300
 gatgagagcc agaacaagct cgattacgtc ttggctttga ctggtgagaa ctttcttgag 360
 cgtcgtcttc agactattgt gttcaagtct ggtatggcta agtctatcca tctactctcg 420
 gtcctcatca ggcagaggca tatcagggtt ggaaagcaat tggatgaacat tccatcattc 480
 40 atggtgagac ttgattcaca gaagcacatt gactttgccc tcaccagtc cttcggtggt 540
 ggccgtccag gaagagtga gagaaggaa gagaagtctg cctccaagaa agcctcaggt 600
 ggcggtgatg cagacggtga tgacgaagag taaatctgaa gtcgcaccgt ttttagctatg 660
 aatcaatctg ctttttgata tttttagta agcaactttg ttgttcgttt tcagaggatt 720
 gttttatggt ttctttcttt tactctcgag attgctaaac ctttgggtta tcatctattt 780
 45 ctcacaatta tctttaaaaa aaaaaaaaaa a 811

<210> 778
 <211> 810
 <212> DNA
 50 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(810)
 55 <223> n = A,T,C or G

5 <400> 778
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 acatcaaaga cacaccaaca gccaaacttg tcaagaagtt cttgcagact ttgagaattt 120
 gctgccccaaag tttatcaagg ttttcccaag agattacaaa cgtgttttat cagccatgaa 180
 acacgaagag gtctccaagc aagcaatcga gcgggcttct gagaaagctg acgagactga 240
 10 agagaaaagaa ctcgaggaga aagatgcatt tgcagaactg aagaacatgg cagctgcttc 300
 gtcaaaaagag gagatgtcag gaaacggagt ggcagctgaa gctagacctt ctaaggtaga 360
 taatgctgtt aaaaacggtg gtttcattgc ttatgagcgt gagggagtta agtacaggga 420
 tccaatgtt cgtcttaatg actggaacga agtcatggag gaatcaaac ctggaccact 480
 ccttacaact cagtcagctc gttgcatgga ttgtggaact ccattctgcc accaggagaa 540
 15 ctctgggtgt cctctcggtg ataagatccc tgaattcaat gaacttgtct accagaacag 600
 atggcaagaa gccttgaatc gtctacttga gacaaacaac tttccagaat ttactgggag 660
 agtatgccct gcaccatgtg aaggttcttg tgnnttggg ataattgaga accctgtttc 720
 tatcaaaagc attgaatgtg ctattannnn naaagccttt gaggaagggt ggatggtacc 780
 aaggcctcct ctcaagagaa cagggaaaaa 810

20

<210> 779
 <211> 810
 <212> DNA
 <213> Arabidopsis thaliana

25

<220>
 <221> misc_feature
 <222> (1)...(810)
 <223> n = A,T,C or G

30

<400> 779
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 ttgccttatg taaactcaaa cacttagata anaaannnnn natctattac aaaagaactc 120
 ttcacgggtcc caaaaactat ataaggctta ttccttttctg acattgtcaa aactttcaat 180
 35 gtcagatgtc caaacacaaa gccagggaaca aaaaaccttc tcaaacact tgtagtacac 240
 cgaatccggg caacgatgat cacacttata acaaatcggt cgagtatgac tattgttccc 300
 aagaattttc atcgatgcag agccnaaata gaacgtgtaa cctgacttaa tataaacgga 360
 agatccgaat atacactcaa ggtggatagt gatacaacat ttgttgcag agtagaacca 420
 ttctcttggg ttcaattctt tctcgcatac ttcacaccaa tatgctttct ctgcatcttc 480
 40 tccatagcaa agcgacagaa gatgtgcac atattttag tagataactat atggaatggg 540
 cgcacatcga taacacatag caaatgagca aatagtacat tgcagataat actcatcacg 600
 aacactatct ttgcaacat cacaagaaat gtttcctttt ctagaatatg atgtggagat 660
 gaataaagga tgttcatgac ttttgtgggt gaaacaatca ggaactaaaa tgcacgaaa 720
 atctatctga attgttatct catcatcgca atcagttttt gaacatttgt acctgaaacc 780
 45 agtggactca cgggcgcaag ttgaacaact 810

<210> 780
 <211> 809
 <212> DNA
 50 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(809)
 55 <223> n = A,T,C or G

5 <400> 780
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tgatacggga acagcaggat gatgagtatg ttgcgtccct gcaagctgac cgagataaaag 120
aaatgaagtc cattagagat gctgaggcac gtcagctaga ggaagaaact gcgagaaaagg 180
cttttctgga ggaagaaaag aaaaaagagg aagaagctca aagaaaactc gaggaggaac 240
10 aggagctaga aagacaacta gatgcaaaaag aagcgtcttt acctaaggag cctcaagctg 300
atgaagagaa tgccattacc cttctaattcc ggatgccgga tggaacacgt cggggccgcc 360
ggttccttaa atctgacaaa ctccaaaccc ttttcaactt tatagacatt gccagagtgg 420
tgaaacccaa cacttacaga ctggtgaggc catatccgag gcatgcgttt ggagatgggg 480
aaagtgaagtc gaccttaaac gatcttggat tgaccagcaa acaagaagca ttgttccttg 540
15 agcttatcta gttttaagct cttaaatata taagaagaat tacatttgtc ttctgcttag 600
aaaaactcttt aattttcaag ttattttntt tatctttctt tatacaaaaag aaaaagtatt 660
tgttgagggg ggaggattat atggtttata aaaccgtcgt cgtttagtcg tttcagttgt 720
acatacaata ctgcctaata tctgtctctc tatctgtcta gtagttataa tgtttatcac 780
atcttcaaat ttgctcaaaa aaaaaaaaaa 809

20
<210> 781
<211> 809
<212> DNA
<213> Arabidopsis thaliana

25
<400> 781
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tcaagaacaa cacaagactc aggcaaacat tggttgtgtg ctttattcga aactataata 180
30 atatctgaag aaagtgacaa gaagaccaga aaagagagag gtgaggtgaa aaacggtttt 240
ggtgcatggg cctctctagc gagcgtcctt ggacaaaaga ccttgcgctt caactttcct 300
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cgtcccaatg cacattgaca ctactccaaa acggcagctt ttaccacggc gtttcatctc 420
gtgcaacaat gtagcaacac aacgcgctcc tgtagcgcgc aaaggatggc ctatggccat 480
35 tgcacctccg ttgacattga ttttctctgg gtcaagtccc aatttggttac ggcaataaac 540
aaactgagat gcaaatgcct cattgatctc aaacaagtcg atgtcatcaa gttctaaacc 600
agccgcctta actgcagcag gaatggcaac tgctggaccg ataccatga ttgcagggtc 660
aacaccaact gcagcaaag tcttgaatac accaagaacg ggaagtcctt tttgcattgc 720
aacatttctc ttcattagga gaaccgctcc tgcaccatca cttacttggc tggaatttcc 780
40 agcagtagtg gtgccatcct tcgcggccg 809

<210> 782
<211> 809
<212> DNA
45 <213> Arabidopsis thaliana

<220>
<221> misc_feature
<222> (1)...(809)
50 <223> n = A,T,C or G

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55 caagaaatgg cgaattacat gtcggaagca gcacagctca gaagaggtct aaagcctaaa 180
gggaagactt atgggttgac caatcagaag agacgagaga tcagagagat ctttgcattc 240

5	ttcgacatag	acggttcagg	tagcatcgat	gctagcgagc	tcaacgttgc	tatgaggtct	300
	cttggatttg	agatgaataa	tcagcaaata	aacgaattga	tggcagaagt	agataaaaaac	360
	caaagtggag	ccatagattt	cgacgaattt	gtgcatatga	tgacaaccaa	attcggagaa	420
	cgagactcca	tagacgaatt	gtctaaggcg	tttaagatca	ttgaccacga	caataatggg	480
	aagatttcac	ctcgtgatat	aaagatgatt	gctaaagaat	tgggagaaaa	tttcacagat	540
10	aatgatatag	aagaaatgat	cgaagaagca	gaccgtgaca	aagatggaga	agttaacttg	600
	gaggagtcca	tgaagatgat	gaagagaacc	tcttanggct	aagtataann	caattagtaa	660
	tggttgatga	taatatttgt	taatnccctn	nnnttttaat	aataaagaag	tttgatttgt	720
	ggcttggtcg	aataaaaaatg	tattgttgtn	naaaaataat	aatgtaattc	acatccatta	780
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15
 <210> 783
 <211> 809
 <212> DNA
 <213> Arabidopsis thaliana

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	actaaagtat	atatcgtgta	ctactctatg	tatggctcatg	ttgagaaatt	ggctgaagaa	120
	ataaggaaag	gagctgcttc	tgttgaagg	gttgaagcta	aactatggca	ggtagcagag	180
25	acgcttcacg	aagaggcact	ctctaagatg	agcgaccac	caaagagtga	atccccaatc	240
	ataaccccg	atgagctagc	tgaagctgat	gggtttgtct	ttggtttccc	aacaagattt	300
	ggtatgatgg	ctgctcagtt	caaagccttt	ttggatgcaa	ccggtggact	ctggagggct	360
	caggcactcg	ccggtaaacc	agctggatc	ttctacagca	ctggctctca	aggtgggtggc	420
	caagaaacca	cagcattgac	ggcaataact	cagctgggtc	accacgggat	gttatttgtc	480
30	ccaatcgggt	acacatttgg	cgcggaatg	ttcgaaatgg	agaatgtgaa	aggtggaagc	540
	ccatattggag	ctggaacatt	tgcaggagac	gggtcaaggc	agccaacaga	gctggagcta	600
	cagcaagcat	ttcaccaagg	ccagtacatt	gccagcatca	ccaagaagct	caagggatct	660
	actgcttaga	gcttaaaaag	attatgggtat	caataagaaa	aaaagaaaaa	aacagtttgg	720
	ttctgctttt	ttttatattc	tttctctttg	aatttggggg	cttttgtgat	ttttcgggtt	780
35	taattatctt	aaaatacatg	atattatatt				809

<210> 784
 <211> 809
 <212> DNA
 <213> Arabidopsis thaliana

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

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	ataggaaaga	taatgactaa	tgagtacaca	agtaactcgg	agaagaacta	caagtttaca	120
50	gattcttgac	caagtaaata	ttgagaaact	catcattttc	aattccatca	atagatcttc	180
	aacagatcac	tgaattctgc	atccgctaga	cgtaggtgca	cgctgtacat	tcccgttaagc	240
	tgtagctca	atcagatcca	tatctcggcc	agcgactcga	cagtaagaac	tcctttggat	300
	aagctcggat	cgagaaatat	cgnnnttatt	annnnttgat	cggtttacct	ttgcctgcaa	360
	aacctgacag	ttttccagag	tgctcttgcc	gcccttgagg	taaggaacaa	tgtgatcata	420
55	atcatgacac	aagcatccag	gacaaccaac	aagcttccta	aacacaatgt	tccttaaatg	480
	atctctcttc	caacgctcag	gatctcttcc	tttaatcttc	tctgcttttt	cccaacattg	540

5	ctgcttcaca ctataaggaa agctcctagg ttctggattc gggtcaccgt aacccgaccc	600
	gggaaaaaga cccatctcct cccggtcgag taaagtggcc gaagttttca cttttccacc	660
	acgggcttca cccgtattcc ggttgggaga cccggaagat agttcgggtc gggcttttga	720
	tggagaagaa gaagataagg ctctgtttct gcgtctggtc gggtcgggtt tcatcgcaga	780
	gtgttggtgga ttatccgaat cgatggaga	809

10

<210> 785
 <211> 808
 <212> DNA
 <213> Arabidopsis thaliana

15

<220>
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 <222> (1)...(808)
 <223> n = A,T,C or G

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	gaagtagcgt ttagagcggc tgaggcgggtg gaaccggcgt ggacacgacg acgttgggtg	660
	aacatgaggt tcttgccacg tttgagagtg gcgttgaaag cagcgatgag tttgtttttt	720
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<210> 786
 <211> 808
 <212> DNA
 <213> Arabidopsis thaliana

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	tgacttgaac gggacccacg gtggcaccac cgtgaaatct tccggcggtg atctaatttc	240
	ttcaatcaaa gacgaagacg gtcccatgaa acagagagta gctgcgttaa agagactaaa	300
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	agctagccat	ggaaacatgg	ctacgtgcat	aacttcttct	ctcttnnnac	cattttttgtt	720
	attctctgca	catcttcaat	aaagcatgga	catatcacat	atattatgga	atcctagtta	780
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<210> 787

<211> 808

<212> DNA

<213> Arabidopsis thaliana

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<400> 787

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	gctttgactg	attctcaacg	cgtgcgaacc	cctgatattg	cagactactg	gaaaccatta	180
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	gtttactgct	ggaaaggtct	tcgggtttaca	gctcggcaag	accttgaagg	attttctagg	300
	tttactgaaa	tgggaatcga	aggagtgtgc	ccagttgaac	tattgccgcc	tgaggtccgg	360
	tccaaatacc	aagctaaacc	aaacgaaaaa	gccaaacgag	cgaagaaaga	agaaaccaa	420
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	cctgaggaac	agcaaagact	cgggtggtct	gatacagaaa	acggtcaaga	ggccgggtcaa	600
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<212> DNA

35 <213> Arabidopsis thaliana

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<222> (1)...(808)

40 <223> n = A,T,C or G

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	tcacatttgt	tcagtataga	agctgccgtc	tcagcagctt	tcctccattg	ctcacattga	240
	atcttcactc	nttnaagctc	agcttcata	atcacttctc	ttagtacgaa	aacaacattt	300
	gccttatcaa	gttgggtgaac	tcgccggaaa	aaaatccaaa	acaacttata	gagatacaca	360
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	aataacgtct	agtctcatag	agaggaacaa	tatctctccc	agctccacgt	gtataattac	540
	gtattgggcg	gttggagata	cattttttcat	aatcagcctt	gtttacctca	agaatgttgt	600
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	cccatagggg	atagttaatg	ttgggggttc	agaacttttt	gtcgccgact	aaatatttct	720
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<211> 808
<212> DNA
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20 accttctaca tcaactaccag atatcttaag cggatatagga agctcgggtg ttggagttga 540
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25 atgatatcaa acaagtttca agcggccg 808

<210> 790
<211> 807
<212> DNA

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<213> Arabidopsis thaliana

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35 aagcagagac tgtttagtaa tgggttcagcg gtagagactc tccgacctca gattctcagc 180
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<210> 791
<211> 807
<212> DNA

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<213> Arabidopsis thaliana

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aacagaatgc gaggagcaag ttgctcaggc tttgtttgat ttggagaaca ctaaccagga 180

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	tcatccccgt	ctcgtcagag	agcttgagaa	gaagttcagt	ggaaaggatg	ttatctttgt	360
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	acttactggc	aaagatggtg	tttttgagta	cccagtcgaa	gcttgaaaaga	agatgatgaa	660
	gaaccatcag	gatagtgaag	gagagctttt	gtttatgttt	tgtgggtattt	aggatgaagg	720
	aaactctctt	gattcagttc	cttgttcaca	atctttaatg	ttctatttac	aatgactact	780
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<211> 807

<212> DNA

20 <213> Arabidopsis thaliana

<400> 792

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	tgctagattg	acgcaactca	ggtcgaacaa	agtctgcac	agcaggcaca	gagatatcaa	240
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	caatatttcc	catagggaat	gctggcaagc	cttccttttc	atagaagcga	cgaccggcta	720
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<210> 793

<211> 806

40 <212> DNA

<213> Arabidopsis thaliana

<400> 793

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	acaaggcaaa	acaaacctta	caaacagagc	aaagttgcga	aactgaaaca	aagaagcaga	180
	ccaaaacaac	caaaatttta	aacacaacat	ctcgtcaacc	acattaccag	acaaaggaaa	240
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55	accacacaaa	acaacataag	ccatctaaga	accattcgaa	aatccctaca	ccacaacgca	720

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<210> 794

<211> 806

10 <212> DNA

<213> Arabidopsis thaliana

<400> 794

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30 <211> 806

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<212> DNA

<213> Arabidopsis thaliana

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25	cccgattgggt caattcgaga ctaatagcat tgaaatggaa gatttcaagt atggatatta	300
	cgatggagct catacttact atgaaggaga agttcaaaaag ggaacatttt ggggagcaat	360
	tgctgatgac attgctgctg tggatcaaac taatgggttt caagggttga tctcttgat	420
	gtttcttcct gctatagctc ttgggatgta ttttgatgct ccgggtgagt acttggtcat	480
	aggtgcagcg ttattcacgg tagtgttctg tataatagag atggataaac ctgaccagcc	540
30	acacaacttc gagcctcaga tatacaaatt ggagagagga gctcgtgaca agtcattaa	600
	tgactacaac acaatgagca tttgggactt taatgacaag tatgggtgatg tatgggattt	660
	caccattgag aaagatgata tcgccacacg ataagatagc gattatgatc tcgnmntaat	720
	catgactttt gatgtaaact gttttataaa attgatgaat gaacggggta caatgtgtat	780
	aatatggatt gttcattctc ttat	804

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	tttccgaccg acgaaaaaaa aagataacaa tttacacaac taattgaagt ttagattcaa	180
45	actctcactt acaagccaaa attttcacat ttaagtccat ttaaggaaac ttcacacttc	240
	gcttctctgc aaactgatta accaaagcaa gagcattgct agtgacttga gccacgtgaa	300
	ccaccttata ccgaatcagt ctttgacttt gcctcccatg gctcgttctg agaattccatc	360
	tagacacgtt gtctcgtccg tcaaagcggc actgacccat gtttgaacgt tactcatttt	420
	ccacatgaag tcctcactag ccacagcatg accagctcga gcaagttcct taaccgattg	480
50	agctaaccgg tccacgctat tgcctagcac ttcgatgcaa tctttgattg ctagatattc	540
	cctacgttta aatttttggtg tctctttggt tagtttggtg acgaagatag taacggattt	600
	ggctcgagcc aagctgatga tgagagcagt ctgggcgaga tcttggtcat tgttggtggc	660
	gatcttggtg gcgtaagcag agagtgtgtg cacgcatagt gatggatatt ggggtggttg	720
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 cacacctatt gactagtaaa ccggtataag agaagactgg atccggctta gttctggtag 180
 tatgacagaa gcatcacaag aagcatagac aagacaaaaga tcaccaaacg tgtcactcct 240
 15 tcatcgtgga gacgagggtg cgaggaggca gcagctggaa gagcaggaat tctaacaggt 300
 tttttacagg tagaggctga ggatagagaa gatgaaggcc acggagcggg aatgttgtca 360
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 acataactct ccattgcacg gcaacaaccc gtttggttac tcaactcgtt gctacagtta 660
 ccaccaatat gcttcatgtg cggaaagaca agaggacaaa ctctattgat tttgcagttt 720
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 <212> DNA
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 <223> n = A,T,C or G

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 40 ctttgtacga aaccctaatt gcctcttcgg tgctggattt ggatcaaagc ttgttagagt 240
 ctatgcgggc cgctaataaa gaggagctta agaagctcga cgagaagatt gcagatgcag 300
 aagaaaattt ggggtgaaagt gaagtctcgtg aagctcatct tgctaaggct ctgtatttca 360
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 ttgctgttgg acaaaaaatg gacgtggtgt tttatacgtt acaacttgct tttttctata 480
 45 tggactttga tctggtatca aagagcattg acaaagcaaa aaaattgttt gaagagggtg 540
 gtgactggga gaggaagaac cggctaaagg tctatgaagg tttgtactgc atgtccacca 600
 gaaattttta gaaggctgcc agcttattcc tggattctat atcaaccttc acaacatatg 660
 aaatttttcc atatgannnc ttcatatnnn ncaccgtcct gacaagcatc ataactttgg 720
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 55 <213> Arabidopsis thaliana

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   catgttattt tgttcggtaa atagaaacag ttatgtactc ttttcatcta catacgtatt      180
   atacgtgtgt gagtgtgagt gtgtgggttt tactcggagc gaactctatc caacctatcc      240
15 acactcttcc tccccctctc aatctggtca acgctcttcc gagtcttttc atggcagtca      300
   acgctctctc gcgagcgatc aagttgatca aacgagatct tgagcttgct gctgctgcta      360
   ctcatcttcg actgactctt tgggtggcttc tctttctctc tacgctctgt gctctgcctc      420
   ggcttcactc tcctgtccat acttctctc gggggcgcct ctctcactct ctctgattgg      480
   tcgctgctca tcctcggaac tggtaatctc tctactgttg ctatgaactt cttgaggtgt      540
20 ctaatgtatt cagggtagtg ttcaagatca cagtgggttc ctcttttcac ccagagcggc      600
   nmntacttgt ctttgcagag ttcccatagt tgtttcccat gagannaatc cactacctca      660
   tccgaagttc catgaatgat gagaaccggg caatcgacat atgggatttt gtcgatattc      720
   ttgtagatgt cgaaccagta ggttttcttg acggaataca taactcttaa accggagaga      780
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   <213> Arabidopsis thaliana

30 <220>
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35 <400> 804
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   tccaaacaaa caacaacaac aaatcgtttt tatgcctcgt acagatccaa gtatcccctc      180
40 attttttatg gtaaaaattt atctccacag gcaaataaat aaattttaatt gacccttata      240
   cggagagaag gggaaaaaat atattggatt ttaatagaaa gaaatcaaac atgtttttttg      300
   taccttatat atgcaaaatg cagaggatga gaggaatgaa tcacatcaact cgtcttcggt      360
   tgccgtgaaa atgaaagtga aaggagcgaa cttgtaacca tctccttcgt agaatttggt      420
   ctgaaactca acccagtga gacgcagcgc gtgaagggaac gcgcttagtg tctccatcac      480
45 cagcaaaact cccacggttg cgaatatgaa caccaagacc ccaacgatca ggatcaacgg      540
   attgttgtaa cccaagcga gaaggaggac cttctcatag aagactgatg acagctccga      600
   gtgggcaaga ctgagagccc atagacgcag gtaagaagcg gtgttggaag cagctccaag      660
   cacaaactct atggtgtgaa tcagctgatg cacaaatatc tcgctgaatt caaactcctc      720
   atgcccattg gatcctctc cgtttgtctc tacatgaaga ctctcatctg tctcgtcaaa      780
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55 <213> Arabidopsis thaliana

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 tttacaccat ccgtcgacgg tggagctcca acatcagacg acggaggaag caccagtcga 540
 20 ccttctgaga ctcttctatc cgcctacgca ctctcaccat ctcttctctt cttcagcatc 600
 gccctcgtag ctctcaaatt ctactgatga ttctttttgt ttctttgcat tccttatgtg 660
 atttgattta tgcacgtttg attatagaaa gaaaccattt atttgggtcat tgctttgtgg 720
 aataagcttt tgtgtatact gttctctgtt nnnagtgaga tttattttgt gttgttgaag 780
 taatacatca tcatttttat gga 803

25 <210> 806
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 <212> DNA
 <213> Arabidopsis thaliana

30 <400> 806
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 attttgcgtc cattgtcgag aaccttagtt tcgcgtgccg tcgttaacta ctcgctcgcg 180
 35 ccgttcaatg cgacgattcc ggctgctaaa cccgagttat gttccttctt cgggtggatcg 240
 atgactcatt tgaggttacc atggattcca atggctaacc attttcatag ctttaagcttg 300
 actgatactc ggctcccga gagacgaccc atgactcatc ccaagaggaa aagatccaaa 360
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 gctgaaagac tgattgagct tcaacagctg gaagaagaga agaagaaatc aatgtcttct 660
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<210> 807
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 <212> DNA
 50 <213> Arabidopsis thaliana

<220>
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 55 <223> n = A,T,C or G

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10 ctatcagcca catggtgatg gtgagaacgg acctgtcacc tccattgcat tctctgtgtc 300
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tgtgtccttg atttatttat ttcttcattg ggaactaaac tccttcaaca cgctactcaa 720
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aaaaaaaaa aaaaaaaaaa aa 802

20 <210> 808
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<212> DNA
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25 <220>
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<223> n = A,T,C or G

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35 acttgtctct atggtttaat aaattaacaa taacagaaga catctagagc tcctcgtgag 240
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45 agtccttggt gagacttcgt tc 802

<210> 809
<211> 802
<212> DNA
50 <213> Arabidopsis thaliana

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gcaaagccag gactctacct ggaccagtga ctgaccttc gcagctacca aagtggaaact 240

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	acactcccgc	gggtgaacca	atcccgaacta	acaaaagaca	cgctgcggct	aagggtcttta	420
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	tccagaaaga	tgtgaagtgg	cctgttggtt	ggcctattgg	cggttatccc	ggccctcagg	540
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	aaaagtctct	caagcacgcc	ttttgctgag	acgccatgag	ttaggctcgt	ggtaacgggc	660
	atacaacggc	tcaatccgtt	cttggcgctt	acgcttgctc	atttttggtg	ggtcagacac	720
	tttgaagaac	cttggagcta	actcaacaag	ccactttggg	tcaatcacag	tcacttccct	780
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	aagctgcaac	tgtgtgcaca	gctgggtggt	ccctccttgt	tctctccagc	cttacccttg	180
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	ttggcattgc	cgctataacc	gttttctctt	ggatttacia	gtacgcaacg	ggagagcacc	360
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	atatgttgct	aaatggtacc	atgttttttt	tcctctcttt	ttgttaactg	caagtgttgt	720
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 40 <213> Arabidopsis thaliana

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	accagtggta	atcaagaaga	tagcctgggt	aacacgtctt	agaggagaga	tatcaacagc	360
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	gtagtcaaca	agactgatgt	ctgtgaccgt	aacgtcgtca	taggtccagc	ggttgaagag	720
55	cttgacttcg	ttagtgagcg	cctgctgaat	ctcagcgtca	acatctgcgg	cgggtggccat	780
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attatttcgct ttatagataa aagattctac agaggttgtg gccttgactg aacaatgtaa	240
acatctttcac caaccaaaca accttcaacg tcttgagcac agccaaagt tctttccaag	300
aagaaaccaa ccgaaccgag tctctgaccg agctgctgtc taaacaccga gtcaacagtt	360
aaacgttttt tgctatagtc cacggtcaac cgaacgtatt ttccatcagc aggacctgtt	420
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aaaccaggag cgatctcggc ttccacaagg ttactgtccg gatcagctgg actcactgtg	600
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35

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<212> DNA
<213> Arabidopsis thaliana

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tacgttaagg gtcttcaaga gactgacggg ggcgattcta accgtctcaa agtcgcccgc	660
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ttcaacgcgc tgggtgactca acaagatatg gatgatacgt atcaaccacc gttcaagagt	780
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55

<210> 814
<211> 801
<212> DNA
<213> Arabidopsis thaliana


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5      <220>
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      <223> n = A,T,C or G

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      cccctaataa aagtttccttc atacaaaact gctattttta tatgtaccgt ccgattaaca      180
15     tcacgaacg acgatcttta accgagtcca ccataagacc cttgtttgta accgtagcag      240
      aacccttttc ctcacactac tctgctacaa tcagcttttag cgaaaccac tcttctattg      300
      gtcacatoga actcaacca aagattttgc tgatgaacgt tcccgattat attactagca      360
      gtcacaagca tactcgaccg tccgattcca acgcaatgaa tcccacctcc tacgttaacc      420
      aaaaccctct ctttcggaac aagtatctca actcctctag tgaacacaaa cacaagatct      480
20     cctatcaacc gtgggatcat cgccacgttt ccatnnaaac acatgtcagc tgttccaccg      540
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      tcgtaagctg cnnnnnnnnn ntgagtaaac tcggatcccg aatcaaccat tgtttgaccc      660
      gacccgctg catcgggtct gaaaaccgaa ccggaaatgt taagcttctt caaaccaaat      720
      ctaatcccaa tcataggaac agtgaagca agaggaccaa gatttgcat tcgttgactt      780
25     tcaggaaaag tcaacaaaga a                                     801

      <210> 815
      <211> 801
      <212> DNA
30     <213> Arabidopsis thaliana

      <400> 815
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35     cgtagacggc ggtttggtga tgaacaatcc aacagcagct gccgtcacgc acgtgctaca      180
      caacaaacga gatttcccg cagtaaaccg cgtagatgac ttgcttgta tgtcgttggg      240
      aaacggtccg tcgaccatgt catcatcacc agggaggaaa ctccgtcgta acggagacta      300
      ttcaacgtca agtgtggtgg acatagtggg tgacggcggt tccgataccg tcgatcagat      360
      gctggggaac gctttctgct ggaaccgtac tgattacgtt agaatccagg cgaacggttt      420
40     gacgagcggc ggagcggagg agttgctgaa agagagaggt gtggaaacgg cgccgtttgg      480
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      tgttgcgta ggaagtcaa gtctacctcc aagtccttgc aaggaatctg ccgttaaccc      600
      tctcgctgac ggccgttaag tttcctttat tattataacc ctccccgtcc gtgatgtaag      660
      aagtttgtaa ccaaaccctt gggtttaatt ttaaccca gccagcatct tcgagttaat      720
45     taattagcct ttcttttttt ctaatgactt tagttgagga attaataatg gttaatgaat      780
      gatagtcttt acttatttat c                                     801

      <210> 816
      <211> 801
50     <212> DNA
      <213> Arabidopsis thaliana

      <400> 816
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      gatagccaga gttttgcaac accggtggat ttggtccata aaacgaaact aacattcaaa      180

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5 agacaagaaa taggagctaa gacgatgata tgggcattca ttcttctctt acgatcttgc 240
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 cgacttcgat cacttttagcg tgaaccttga tggtaacact gtcgggggatg tccatcggtt 780
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<210> 817

<211> 800

<212> DNA

20 <213> Arabidopsis thaliana

<220>

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25 <223> n = A,T,C or G

<400> 817

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 ctactaaatc ccccgccggt acttctccca ctacggctcc ggcgaaaact ccaactgctt 240
 cggtctcttc accggttgag tcaccaaaat ctccggctcc tgttagcgag tcgtctccac 300
 caccgacacc tgttccagag agctctcctc cggttcctgc accaatgggt tcttctccag 360
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 35 cggttgctga tgtaccggct cctgctccaa gcaagcataa gaagactaca aagaaatcga 480
 aaaagcatca agctgcacct gctccggctc cggaacttct cgggtccacct gcaccaccga 540
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 gggccggttct cgttatggca ttctaaatta tttatcattt cactctgat atttntagt 720
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<210> 818

<211> 800

45 <212> DNA

<213> Arabidopsis thaliana

<400> 818

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 taggagcccg attctacctc aatgctactc aggaaaagtg gaagaactgg cgtatgtatg 180
 actatgttgt caaagagttg ccaaaactcc tgagtgaata cttttcccag cttgacacaa 240
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 ggaacctcga taaatacaag tctgtatctg cgtttgcacc aatcacgaat ccataaatt 360
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 aatacgatgc cacttgtctt atttcaaagt acaacaatct ttctgcaaca attctaattg 480

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<210> 819

<211> 799

<212> DNA

15 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1) ... (799)

20 <223> n = A,T,C or G

<400> 819

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 25 caaagatcct agcccagtta agctgaattt aggagttggg gcttaccgaa ctgaggaggg 180
 aaaacctttg gttcttaaatg ttgtgaggaa agctgagcag cagcttatca atgacagaac 240
 aagaatcaag gagtatcttc ccattgttgg attggttgag ttcaacaagt taagcgctaa 300
 gctcatacta ggcgctgaca gtccctgctat tccgggagaat cggattacca ccgtggagtg 360
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 30 gaaaacaatt tacatcactc agccaacatg gggaaatcat ccaaagattt tcacgctcgc 480
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 gatgcgatca aagggattga tgcccttctt cgatagtgtc tatcaggggt ttgcaagtgg 720
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<210> 820

<211> 799

40 <212> DNA

<213> Arabidopsis thaliana

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<223> n = A,T,C or G

<400> 820

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 gtttgataag agagtggagt atgcttcccg caaagcaaga gctgatgtga gacggcgtgt 240
 aaaggggcga tttgtcaaag ctggtgaagc ttatgattac gaccctctca ccccaaccag 300
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5 ttcattcttg ggattcaatc gttttttttt ggcctcagaa gcttcattct tgaccagagg 540
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 ggagatttag agtaatttaa acaatatgtg attgttgat atgcctttgt atttgtttgt 720
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<210> 821

<211> 799

<212> DNA

15 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1) ... (799)

20 <223> n = A,T,C or G

<400> 821

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 25 aggcccaaaa cgagtccaac aagggcaccg cctaaagaag aagatgggat attcgtgatt 180
 ccaccagag acacgtgtcg ttagctggat ttgcaaatac acgtgttgga ggaaaaatct 240
 taagctttcc gacaacaacc tccgccatat gagctacaga ttccggtgaa aagaaatcat 300
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 30 ctaaactaat cgaagctcca taaaaataac agctaaaagg caaattaaaa taagcgacgg 480
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 accaacacat aaccaatgaa attattgaaa cacggagaga taacgtcgga ctacgccgga 660
 aaaacccaaa agccagccaa caccgctata gaagccggac gatgccagac atagagccag 720
 35 ccatcaatca ctatgaaagt aagatgctgg acgaaagcct gattacatca ggatggcaaa 780
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<210> 822

<211> 799

40 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

45 <222> (1) ... (799)

<223> n = A,T,C or G

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 50 agaaatgtgt tcaaggctct aagcacacct tttgctcaag tgggttactc cagtaagacc 180
 attgagtgc aagaatcaag gataggaaag caaccgatcg ctgtaccttc caatgtaacc 240
 attgcattgg aaggtcaaga cttgaaagtg aaggttccat taggagagct ggctttaact 300
 taccacacgc aagttgagct tacaaaggaa gaatccggtt tcttaagggt caaaaaaacc 360
 55 gttgaaacta gaagagccaa ccaaatgcac ggccttttca ggacgcttac cgacaacatg 420
 gttgtgggag tatcaaaggg atttgagaaa aagcttatac ttgtgggtgt tggttatcgt 480

5 gcaacagtag acggaagga gctggtgcta aatctcgggt ttccacaccc ggtgaagatg 540
cagataccgg atagtctgaa agtgaaagtg gaagagaaca caagaatcac tgtgagtggg 600
tacgacaaga gcgaaatcgg gcagtttgct gcaacggtta ggaagtggan nccaccagag 660
ccatacaagg ggaaaggagt caagtattcc gatgagatag ttcggaggaa ggaaggaaaa 720
gctggaaaga agaaatgatc ttcatttttc attattatct acttacttat ctcttccttt 780
10 caatgtttat gtgtatttg 799

<210> 823

<211> 798

<212> DNA

15 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(798)

20 <223> n = A,T,C or G

<400> 823

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25 tgaagaagga tgtgtctcct ttgttacctt ccattttcatc gaatcttcga gtttcttctg 180
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<210> 824

<211> 798

40 <212> DNA

<213> Arabidopsis thaliana

<400> 824

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55 ccttcatttt tttccctcaa attattagtg gtcattcatt tataatattt gagtttgtgt 720

5 ttgatgtacg attcagacat ttgtttgcat tatgtgctta ataagtttat cgttgactct 780
 aaaaaaaaaa aaaaaaag 798

<210> 825

<211> 798

10 <212> DNA

<213> Arabidopsis thaliana

<400> 825

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 atgatccaac ggccagaaac ccattacgat gcaaattaaa aaagcaaatac acgaaaaatt 240
 catcagatta acaacgttga atttgacgtc ttcagtaatc ggtggtaggc aattgctcgt 300
 gggcattttt atcgatgaag acaaagtcgt agataattcc ggcgagtcca ccaccaataa 360
 20 gaggaccagc ccagtaaacc cagtggttgg tccacgtcca gcttacgacg gctgggtccga 420
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 25 caaagctaag gaggaaacaa gcggcgacgg agccaagaag ctgagcaatc cagtagagaa 720
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 cgtggccacc ggaaatgt 798

<210> 826

30 <211> 797

<212> DNA

<213> Arabidopsis thaliana

<400> 826

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50 <210> 827

<211> 797

<212> DNA

<213> Arabidopsis thaliana

55 <220>

<221> misc_feature

5 <222> (1)...(797)
 <223> n = A,T,C or G

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 tgggtcttatt acgtttaatt agatgtaaca cttccaaaca tggccttcaa aacagccacg 180
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 aaaatcccta accaatatcc tatgaaatca gctgctatat cgacaaatcc aattgtctct 360
 15 cctccgaaaa aaagtttatc tccaagctcc ttttctaaac atttcaaacc ctcataagcc 420
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 20 tacttgagaa gcatagggct cctgtttcca taaacatctt cttcaatgta ctcataaggt 720
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<210> 828
 25 <211> 797
 <212> DNA
 <213> Arabidopsis thaliana

<400> 828
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 35 gattggaata cacctcctgt gtgccccaga accagagaaa cttcccaaga aaactgcat 360
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 aaaaaaaaaa aaaaaaa 797

45 <210> 829
 <211> 796
 <212> DNA
 <213> Arabidopsis thaliana

50 <220>
 <221> misc_feature
 <222> (1)...(796)
 <223> n = A,T,C or G

55 <400> 829

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5  tcattcatca aacggtaaca gctagagcat gttcaaactc atatgacaca ggaactgtaa      60
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   caatcaccgc gcaccgaatt attttgttcg tatcggaagc agaaggggaa ggattgtccc      180
   aaaaaatcgc catctttcca ccataatctg ctatcttaac atcgacatta cgggacaact      240
   taggtagtcc tttcaccttc ataactttcc acaatctcag cttagtgtca aaccatcgga      300
10  aagcatcacc ataacagtac aaaacattct ctataacaca attacaagac caaaaccaac      360
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   ccttcacccc aatcgtcaag tagaactttc catcaacata cgcgnnnntt gatagagcgc      480
   cccagtcttt ctcccagtaa gggatgggccc tatgatccca aatttgggtc tttatgtcga      540
   acacttctat cgggtacaag gaatctgcat catcaccgtc gacacctcca gctacataaa      600
15  tctttccatc aataacacta gcagcagggt ccgacctttc catctgcagg cttggagcct      660
   cacgcaacgt gtgagaccgg cagtctagga tcacgactct agaggaaacgc acattctcct      720
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   caagaggggg attagg                                     796

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     <212> DNA
     <213> Arabidopsis thaliana

25  <220>
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     <222> (1)...(796)
     <223> n = A,T,C or G

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     aaaggcacag tctagggatg actttctatg agcctactgt tatccgcgat gtttcggata      180
     acatgatcat gtctaaggag gagatttttg gacctgtagc tccccttatt cggttcaaaa      240
35  ccgaggagga gcgtatcaga attgctaatt acacaattgc aggacttgct gcttatatat      300
     tcacaaacag tgtccaaaga tcttggcgtg tatttgaagc acttgaatat ggacttgtag      360
     ggggtgaacga aggactcata tcaacagagg tggtccatt cgggggagtg aagcagtctg      420
     gtcttggaag ggaaggatcc aagtatggta tggacgaata ccttgagatc aaatacgtat      480
     gcttgggaga tatgaataga cactgatttg gtttggtgga aaagcttttag aaattgtaag      540
40  tttttctcct ccactcgtat ccttctaata aaagcttact gtggaacata ataaggattc      600
     ggaggatact tcttaagaaa taaagatnnn tctacgacca attgttagca tgatttttag      660
     ataataattht ggggtttcca ttttatttat ctttgtttac gttatttttt tctttgtttt      720
     acgttaattht ttgtaattcg gacaattttt gctttggata taccacaaaa aataaaaaaa      780
     ataaacgttg ttgttc                                     796

45  <210> 831
     <211> 796
     <212> DNA
     <213> Arabidopsis thaliana

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     atgatggaag ataactagag tagacaaagg gggtagtata ttacacagac aaaaggatca      180
55  aagagggtgaa acaaagtctt tgtgtgccgt gtaatctatt tgccgaagag agatttgaac      240
     caccaaacgc ccttggaagtc ttcaggggca gtgttggaag caggtggtgt gtcactctga      300

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5	ggagtcttgt	gaagcttgct	gatgtcataa	ccttcctcca	ctgccttctc	caccagctgc	360
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	ggctggccaa	tgagagcgtg	ctggtagtca	ggatcgatgt	agagcaccca	gtagtctccg	480
	gtgacgggaa	tgattgggag	gaaaggaggg	acatagaact	tgactttgag	cttggettccg	540
	tcgcttttag	gatcggcctt	atagggcgtg	ccttcgataa	aacccctctt	cccgttgctc	600
10	cacgttttct	tcaagacgtg	tatggtaccg	tcgggggttaa	gggtgtaggt	ggcgcgagtgc	660
	tcgacgccgt	tctttggctg	aaaccttgat	gggaaagaag	caatctcgta	ccaacggccc	720
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 <223> n = A,T,C or G

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	ctacaaatcc	ataagnanga	tgtaaaacaa	aaagctacga	taatatact	gcttcaccat	180
	atannttcta	atatagaact	ttcaatagcg	aacttcattc	ctcgactgcg	atcttgctct	240
30	tctcgctcac	atagatacca	tcaagaaact	tcctgatatc	cttcttcttc	acatgacatt	300
	tctgattgat	caaagcacaa	gaccgtgaaa	caagctcaat	atcatttccc	tcaagaataa	360
	tctcatcctt	aaccttctca	gatcgaacaa	tcttaacacc	atccaacatc	tcaaccttcc	420
	tcaccttctt	ctcaccaagg	aagttacgaa	tctcaatact	cttattgtta	ccatcaatag	480
	aagcattgat	aggaaaatga	gcatacacaa	atctcattct	ataaagaaaa	ccttgagtaa	540
35	caccagcaat	gagattatca	acatggctta	aagcagttct	aatcgaagca	cttgtcttac	600
	gagaacccaa	ccaagaatca	atcttaagct	gacgttttcc	agtgacttgg	tctttaatca	660
	actggaaatc	gagattcaga	tgcttgaaat	cacgagtgcg	tttacctcgt	ggaccttcga	720
	cctcaatcac	cttggcgttt	accttaatgg	cgacgccgtc	ggggatgtcc	atagtctccg	780
	aggacaaaat	ggtctt					796

40 <210> 833
 <211> 795
 <212> DNA
 <213> Arabidopsis thaliana

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	ttcatcatcc	tcgtcggtga	catggcggtt	actgaattca	ttggggatga	aaactccagg	180
50	ctggctcgat	cttctcctag	tcctcgacgg	aaggatatta	tccaaatcaa	cctcagccaa	240
	aggatcatcg	gagaaatcgc	tttcgtcgtc	ttcatcaaaa	ccttcgtcat	cttcatcatc	300
	atcactgtcg	tcttcatcat	cactttcttc	cacttcgatc	atctttccct	ttcccttctc	360
	ctctcgcgaa	atccctttac	ctttcctatc	aacaacttct	tcttcttctt	cttcttcttc	420
	ttctcgtcgt	tcttctctct	catcttcttc	atcctcttgc	tcctcttcag	ctccaacatc	480
55	gcgattacg	ccattctcaa	cctcttcagc	tgctttctcc	gataaaaccg	atgattctgc	540
	tccaatcggt	tcctcggtgg	aagaattcag	attctcgatt	tggccacttc	cattagtttc	600

5	tccgtctttg gactcagaat cagcagaatt caatgaagga ttaagcttct gageccttggt	660
	tgtcacatta tcctgggtctt gacaaaacag atccgatttt cgcttcacag gaaacgaaga	720
	atcctgttga ttctcaacat ccgccataga tgaatcaatc ttcttacttc agagactcgc	780
	gattttgggtt tgagg	795

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 <211> 795
 <212> DNA
 <213> Arabidopsis thaliana

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	cacaaagggga gaaatagatt tcacagttga gttataagca gagataattc atgatcatat	180
	acaataaaac aagtcccta ccaaagctgg ttcaaggatc tggtttgcca gcaattgcaa	240
20	catcatcatc atcatcatcc tcattatctg agccgtattc ctcttcaact agttcttcat	300
	cgctagactt atcttctgaa ctttcccttg gctttgcata ctcttcacag tattctttaa	360
	ctcgttgctc ataagcagga cgatcacgca tcattaacgc agcagcttct ccattcaatg	420
	gatctgatgg gtttggtatc agaagaagct gaggaagaaa tgtctcaaac acattcacaa	480
	ggtcgaacat aggactccaa gtttggttaa tcacatctaa acaaacagaa cccgacagtt	540
25	catcaacatt aggatgataa attttagtaa tgaaaccaac agatggagat ttataaggat	600
	aagcatctgg aagctcaact cttatcttcc acacacctcc ttgatagaga ctgtctttgg	660
	gaccattgaa ttcaacatag aattotttgc tgccatcggt gatcgtttcc actttataat	720
	cgctcatcat cagcttcatc atatccattt ctctgcgttt gcttggcgaa gacatttttt	780
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 <212> DNA
 <213> Arabidopsis thaliana

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	tggtgtttgct ccgcgtggtt gagatgaaga gcaccttcat ggttcttgtg aacttcacc	180
40	ttgaactttt cctctttttc tcccctcttc aacttcagta gcatgttgta ttttgagcc	240
	tcgccgggta cctcagcttt agcatgcaca acctccagaa gttcataagg gaacaaggag	300
	ttagacctct gctgaatggt cttgacagcc tgctcagcaa catgcttcac ttctggatca	360
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	agagtcaggat gatgcagtgt tccggctaca acttggttct tcgccttcac aactctcgca	600
	aactcaagaa gtgcattctc tttcttggtg tgttcatcga cagcgaaacg agcgaggctc	660
	tcaacctcac cactgttctg attagcaggg acatcgccaa caccctcgac taaagccatc	720
	tcttcgttgc agaagcctaa atcactggcg atcagagagg aaatgaagag ggatagagag	780
50	aagaaacgga cgcgt	795

<210> 836
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 <212> DNA
 55 <213> Arabidopsis thaliana

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   <223> n = A,T,C or G

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    tcagcgtaga atctatttga tttcgatccc aagttttttc cttagctcag gaacgaactt      180
    aatgatcttc tccgaatcag gaagagactt agccacactc tctctctcca cacacctttt      240
15  accccaagnn atcagttttg gacactcggc ttcaatgctg aaactcccaa acttctcata      300
    cgcttcaaac caactgtaaa atccaatgag agctatatca acataaccga atgtttcacc      360
    tccaaagtaa gtcttggtct caagctcaga ctctagtgtc ttgagtatct cgatgaactc      420
    cttcttcccc gcctcatgct cttcgctttt agctcccaa atcaacctcg ctgaagcata      480
    caccttctta tcaatgaaat ctccccaaaa tttggcctga gctcttttgt aaggatcaga      540
20  aggaagaagt ggggttttgc taggccaaac ttcgtcgtatg tattcgatct ggatgagtga      600
    ttcacatacc ggannaccat tgtngatgan nnnnngtatt ttcttatgaa ccggattcat      660
    ctcgaggaga atcggtcttt tgttccacag atcttgttct ctgtaatcga atttgacatt      720
    tttctcttct aaagcaatcc tcgtcctcat tccaaacatg ctcggccaga aatcaagaag      780
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25  <210> 837
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    <223> n = A,T,C or G

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    gctaattgat cagtgaagaagg aggggtgtc tctcaggaag cattgatgca catgcatggc      180
40  ttgaaagcta aagtcactaa acaagttaga gagctctctg tagaggcagg tggtaaagggt      240
    tctgctaaga aagatctcaa cacccaacga aatttggtca aagatcttgt tgaatttctt      300
    gaggatggat atgctcctga aacctcaaca aaagtcggag gggactatct acagacgtca      360
    acgtgggtatc agatgataca gttgaattat ttgaagcatt tcctagggggg tggctttatt      420
    aagcatatgc aggagaatga attccttcat gatgtattta gtttcaactca gctcttaaca      480
45  aagcaagaac gcagttcctg gccaaagcaa ggatgttagc taagaatatg aacgttgggc      540
    attacgcagc tacagcaatg gaggaagaat gatggctcta caattgattt ttgaagaatg      600
    atggcacact catctgctgc ttttggaaaa tgttgtgtgt ccattagtac actttttctt      660
    gtttcatgtt tttgatttga taattgggtc caatattata accannnctt agaaatgtct      720
    tttcatttat aacaattttc gaccgttgag tgtaattcct atgattcaac acttggtgtt      780
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55  <213> Arabidopsis thaliana

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    tcaatgtcac catcccagtg gatggttatg atcctgttca gtttttcctt acaaaactct      180
    gcgaatacaa tcaaggtaac gaaggaggat cagcgaaaagg atgggctata tttggagttt      240
15  tttcctgcgt attcctnnnn gcattctgcac ttttctgctg tgggggcttt atttataaaa      300
    caagagtaga gcgtgtgcgt ggaactgatg cattgccggg gatgtcactt ctatcgggct      360
    tactagaaac tgtgagtggg agtggacaaa gctactcaag aactgaagac atcaacaatg      420
    cttttgccaa tgaagtctca tgggaccgct cttccgcac ttctactcaa gcgacaacaa      480
    cacagagacc aagtgaaga acatatggtg cgatctaatt ttgtcaagtg cctcacaaga      540
20  ggtactgttt caagccatgg tatggcacgc ttgtgatctg cgatttctgg attttgcttt      600
    gtatgtttat tttctacctt ctagaaagag gtcaaaaagt taatagcttc accgtgagaa      660
    tgttgttttc accagattca tgtgctatga tagaaaaaga caaagcaaac aagagtctct      720
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    tgctatcctt gatgagatgc gaggaagtct cgaaataaga ctagcagcag cactggagtt      180
40  gaaaaagact gcngagaaag aaaagaaaga caaagaagat tctgcactta aggcacttgc      240
    tgagcaagaa gccaacatgg agaaagtggg ccaagaatcg aagcttctac agcaggaggc      300
    agaggaaaat tccaagcttc gagattttct tatggatcgt ggtcagattg ttgatacctt      360
    acaaggagaa atttctgtga tctgtcaaga tgtgaagctg ttgaaagaaa aatttgaaaa      420
    ccgagtgcct ttaaccaa atcgtctcctc aagcttcaact agttcatgcg gatcatctat      480
45  gaaaagcttg gtgctcgaga acccttctga gcgattgaat ggagtgactg aaacctcaaa      540
    caacaacaag ttcccagaag cagcagcttt cttcatgaac aaagagaaag atgattgtag      600
    agatcttctt gaagatggat gggacatctt tgacaaggag accgaacaag ttggttggtg      660
    ctgaagaatg aagttattgt acatataggg tacttaaatg ctaaaaataa atggattggg      720
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    ttcagagaca tcaaaactat atcctctctg cagaaaacca gcgtggacga gttgttattc      180
    ccaagaggaa atgctctatg tatgttggtg tctatgtgtc tcatacttga tggatcttcc      240
15  acatgccagt tctgtatccc acagacatta aagcaagctc ccaaagcatg tttggaatgc      300
    tcaacatact gacttttagac ccgggaattt cggaccattt cacagagatt tcaaccattg      360
    gtatatataa acgcttgacac aagtacacca attcaacatc aaagcaccac cttttcagat      420
    ggacgtttgt gaaaagtctc ctagcagcag cnctagtaaa catcttgaag ccacactgtg      480
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    ttgaatattc ttctctggct actgcattga tctgattttc aagtttttct aggtccgtta      720
    ctttagttgc tccatcagca tccaacatga gaagtagctg accccgcgaa tgcaacattc      780
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30  <220>
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    aacacaccat tacaagcaaa gttgtgacaa aagacgaagt cgttnttgaa ccatctaaca      180
40  ctttttattcc aaactctcca actttggttc tgctacgtac tcttcaagta gtcttttgat      240
    caaacaagac gtctacagag cgtgatacca tctccaatgg aaatctgaga gacctcgact      300
    cggggatcca aagccaattt tttattgaat tctataagag ctgctctata ttctctcata      360
    tgctccggaa ctccatcttc atcctccgcc acaaaaacca accacaaggt gttgtcgaaac      420
    gcaatgattc ccccaacctt caccaatttt agaagcctct catggaagtt gacgtagctt      480
45  gatttgtcag catccgcaaa tgcaaaatca aactcacatt tgctcgttcac caattggtct      540
    aaggccttaa gaccatcgga atggataaaa ttaatcttgt gatcaacacc agccttctta      600
    ataaactcta gtccaacttc gtaagcttct ttatcaatgt ctatcgcggt aatacggcca      660
    tcttcaggta aagcaagagc tgtagtgaga agcgagtaac cggtgaaaac accgatctcg      720
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   attctcttcg gagcgtcttt accggttgcc gtgctgtgat tttgccccgc tttgggtggtc      180
   cggagggttt tgagctccgg gagaatgttc cggtgccgaa tctgaatcca aatgagggttc      240
15 ttgtcaaggc gaaagctgtc tccgttaatc ctcttgattg cagaatacga gctggatatg      300
   gacgttctgt attccaaccg catctaccta ttatagttgg acgtgatgtc agtgggtgaag      360
   ttgcggcaat tgggacttca gtaaagtcac ttaaagtagg acaagaagtt tttgggtgcgt      420
   tgcacccgac ggcgttaaga ggtacttata ctgactatgg aattctttcg gaagacgaac      480
   tcacggaaaa gccatcatca atttcacatg tggaagcaag tgccattcct tttgcagctt      540
20 tgactgcttg gcgtgctttg aagagtaatg cannnataac tgacgctgag aatggagaag      600
   caggggaagc gcgtaagcgt aagcatgatg atagcagtga tagccctgct cctgtaacaa      660
   ccaagaaatc taaaaccaa gaagttgaag gagaagaggc tgaagagann nngaagtctt      720
   ctaagaagaa gaagaagann nntaaggaag aggagaaaga agaggaagcc gggctctgaga      780
   agaaggaaaa aa                                                    792

25 <210> 843
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   <212> DNA
   <213> Arabidopsis thaliana

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   ttgccttaac cgcggttctg gcctcaaacg catatgggtg ggttgtagac atcgatggaa      180
35 acaccatgtt ccacgaaagt tactacgttc tccctgtcat ccgtggccga ggcggaggcc      240
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40 caaagccaga aggttcgga caagattcgt tgaagagttt cttcaagatc gagaaatctg      540
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   agccgttctt ggttatgttc aaaaaagcta atgtgaccga agtttcgtcc aagactatgt      720
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55 gaagctgcta aacatttcac tattatcaaa gaccacttaa gtaatgagat cttcttatga      180
   tggtagaaac ctcaaggaac actatatcct atgtaaaagg gggaaaaaac ttcaatcata      240

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	ccttggaact	gtactcgtgg	tgaaatgatt	ttgtttccgg	aatattcagt	tttgcacttg	720
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	tactcaacgg	catcggtttg	aataggaaca	acaacttgag	acgacaccgt	tttggttcg	420
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	ccacaacgca	acaatccagc	ggatttagga	agagaacgcc	aacaaccttc	accgtgatta	720
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 aatgttcccc ttgaaccttt ctctcaatct cttcactttc tctgcagttt tctccgaagc 480
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<220>

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 atttggtgaa tgggatgtga atgatccagc atcagcagaa ggttttacag tgatattcaa 300
 caaagctagg gatgagaaaa agaccggtgg caaacgggga tcaccggtga aatccagtga 360
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 aaaatgctgt aaaatcgtgt ctccatttta ttggaaaaaa aaaaggaaga aaacgaaaa 720
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 <212> DNA
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 atcaaataat actatacata aaaccagaag tgcattcagt tcaagattta ttctcttctt 180
 15 ttogctttac atttgcatgg ctagggagcg gacacagctc agtactccct tactcatttg 240
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 cagttatcat cctacagaga aaacttacaa agtattagtc tcaactgttg ttaacaaatt 720
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50 <212> DNA
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	acgactttga	cgataggtgt	gatgatattt	acttttggtt	ataattatga	caaggggaact	720
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<212> DNA

20 <213> Arabidopsis thaliana

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<212> DNA

15 <213> Arabidopsis thaliana

<400> 856

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35 <213> Arabidopsis thaliana

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	agttgatctg	accactgtgg	ggctaacagt	acatctcaag	gagaggctga	agtcagaaag	780
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<210> 858

55 <211> 785

<212> DNA

5 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(785)

10 <223> n = A,T,C or G

<400> 858

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15	acaatgctcca	catgttccgg	ggatatgtgt	gcacttgctt	cgacttgga	ccccgatttc	180
	aaacaaacaa	acaaaatgat	aagaccacac	aattccatga	aattaaaata	gcaattattt	240
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	aaaatcttct	tccataagag	gaagcccctc	acgtagcttc	acctttggtt	cccaaccaag	360
	aacttcttta	gctttgctta	tgtctggttt	cctctgcctt	ggatcatcag	gtgtgttctc	420
20	taccatcttt	atctccacgt	ccggtttaat	aagctcttta	accgtctcag	cgagctcaac	480
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	acgcattaga	ccttccacca	tgtccgaaac	ataacagaaa	ctgcgggttt	gtgttcccg	600
	tttctgaaca	gtcagagctt	ctcccctgag	agcctgagca	atgaagttgc	tcacaacgcg	660
	accatcatca	atgttcatac	gaggaccata	tgtgttgaa	atcctcgcta	tcggtatctc	720
25	aatcccatgt	tgctatggt	aatcaaacat	aagagtctcg	gcaacacggt	ttcccgacg	780
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<210> 859

<211> 785

30 <212> DNA

<213> Arabidopsis thaliana

<400> 859

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	gaaactgaag	agttaactta	aaagataaga	gcccagacgg	ggaagacgac	gagacagatg	180
	atcccagacg	tggtggagat	accattggct	ttagtaaatg	catttctgaa	tcacacctgaa	240
	gctctaattg	gttcttgaag	caagtaacat	ccaataccta	aacatatagc	taaaccaatc	300
	caactgtctc	tgaatgtgcc	agcaatcaaa	tttggtgcca	ccacggcgag	aagaacaaaa	360
40	gccaccggta	attccaggtg	ttctctggcg	tgtttaggaa	agaagagttg	tacaacaaca	420
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	agactgaaga	agatgtaagg	aatgagaagt	gatgtgagca	tattcgtctt	ccaattggtt	540
	cgatccaaca	ccaacaagta	tatggcggcg	attgaagcaa	cccattcgag	gacagaggta	600
	ccaaagccta	aaccagttag	tgtgaaggcg	tgtgtagcta	ggttcttagc	agcgatagtg	660
45	agctcggttg	aatcggtatc	gatcatggcc	ttaagggttc	catggtcatt	cctcaacgac	720
	ttcataggca	tcttttcttg	ccggagaaga	gagaactatg	aataattgat	gtgagaagag	780
	aagag						785

<210> 860

50 <211> 785

<212> DNA

<213> Arabidopsis thaliana

<400> 860

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	aacaggcaac	tacttcagag	tacaaagcat	accaagaaca	agtcctgagt	aacagtgcaa	240
	agtttgctca	gactctaata	gagagaggat	atgaacttgt	ttctggtgga	actgacaacc	300
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	tccaatccga	gattgcgaaa	ctgcgccatg	aagtcgagga	attcgctaag	cagttcccaa	660
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15	gttttctggt	atgctttgaa	ttcccatgga	atgtatagat	gatacatgta	aaactctatt	780
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<210> 861

<211> 785

20 <212> DNA

<213> Arabidopsis thaliana

<400> 861

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	tactgctgga	cgatactctg	tgaagaggtt	cagaaaggcg	cagtgcccaa	ttgttgagag	240
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	cttcttgctt	acaactggtg	cagtggaagc	tgcctttaga	aacatcaaga	caatcgctga	540
	gtgccttgct	gatgaactca	tcaatgctgc	aaagggatct	tccaacagct	atgccatcaa	600
	gaagaaagat	gagattgaga	gagttgctaa	ggccaatcgt	taagggatct	ccctttcctc	660
35	taagtttgca	ttatatcaaa	gagtttttgt	gttggtttcca	ttagctttgg	atatgtttca	720
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<210> 862

40 <211> 785

<212> DNA

<213> Arabidopsis thaliana

<400> 862

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	gtccggaaat	taaaacccaa	gaaagaagaa	aaaagcagaa	aaacaaggga	taaaatcaaa	180
	gatgggggat	aaagttttga	ggtttacaca	aaagcaaagg	gaaattaacc	ggtgaagctt	240
	ggtggcttgt	aggcaatgaa	actgatgcac	tggacttgac	gggtgttgtc	gaatccgatg	300
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	gcggagtcgg	tgcaaccgaa	caagggaagc	ttccacattg	tccagtaccg	tccatcatag	420
	tatccgggtg	agttaccgtg	ctcacggtac	acaaatccgt	gctccaactc	gaattcaaca	480
	caagggaatcc	acttggttgc	gataaggtag	tcaacttctt	tagccaattc	ggaatcggtg	540
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55	atgcagttaa	ctcttccgcc	gttgcttgtg	atggaagtaa	tgtcgttgtt	agccttgccg	660
	gtggctggga	aggcagcgga	ggacttaagt	ccgttgaaag	gagcgaccat	agtggcctga	720

5 gccggagagg caaccatagt agcggagag agcatagagg aagccattgt tcttcggacg 780
cgtgg 785

<210> 863

<211> 784

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

15 <222> (1)...(784)

<223> n = A,T,C or G

<400> 863

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25 tgacgggaat cttggcttct ggtttgtttg ggttgacggg tctgagctcg gtctcgtggg 420
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30 aaatgtagtt ttacttttat gttccagttt ctttctctt ttaagaatat ctttgtctat 720
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aata 784

<210> 864

35 <211> 784

<212> DNA

<213> Arabidopsis thaliana

<400> 864

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aaaa 784

55 <210> 865

<211> 784

5 <212> DNA
<213> Arabidopsis thaliana

<220>
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10 <222> (1)...(784)
<223> n = A,T,C or G

<400> 865

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	catccataag	aaacctaaat	gagcaaatca	gtcacttggt	aaaatatgca	aaacaacaaa	180
	agatgactta	gacttgaaga	cttagtagta	gtactgtaca	ttcacacgta	ccttcccttc	240
	cctgtctgtc	tctgttcggg	aatcagtgat	gtcccacgtc	atcaatcatt	cagacaacga	300
	ttgtgccacg	tcattcaact	acagtcacct	cctgatcaac	cttccagtag	ttagtgtcgt	360
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	tcttcatcgg	tcctgcttct	cccactatgc	cttccttgag	agcttgatcc	attgcccttt	480
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	caggcatctt	cacatcatct	gtacttcccg	gtgcaatggc	tgaagatgaa	tcattacgtt	660
25	caaccatttc	aggtgacaat	tcattctgtac	ccacatcttc	atcaatctcg	atatcagcgt	720
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<210> 866

30 <211> 783
<212> DNA
<213> Arabidopsis thaliana

<400> 866

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	aaggccacaa	ggaaatcgcc	ttgataagca	agagtcttact	gaacttgtga	agaggggttc	180
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	ggatgatgtt	gagagggacc	aaaagaagga	taggcgtgag	gaaaggaaac	ctgcaaagag	420
	agagaaggaa	gaaagacatg	ataggcgtga	aaaacgcgaa	aggcatgaga	agcgaagcgc	480
	tcgtgattca	gatgatagaa	agaagcacia	gaaagagaag	aaggagaaaa	aaagaaggca	540
	tgactctgat	tctgattgaa	gcgaattgtc	ccaggatgga	acattttgct	cttcagagga	600
45	agagtggctg	gctaggtacc	aaaatccagc	taccacttct	gcaagattta	aatctgttgc	660
	ttatttcatt	tacgaatcgt	ggagtaaagt	gttgttgaac	attgttgaaa	atgtttgtta	720
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50 <210> 867
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<212> DNA
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55 <220>
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5 <222> (1)...(783)
 <223> n = A,T,C or G

<400> 867

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	gagctacgac	tgcgacgtgt	gagttccgga	ttcctgtaga	agtttccact	ccatcagata	180
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	attacgctct	tgaactcgcc	atgggagatg	aannnnnaacc	aaaagnnnca	tgtaaactgt	600
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20	atcgtgggtg	atcctcgtaa	atctcttact	gaactcaacg	atattccgat	taaacttctc	720
	aacaattcaa	catttcatga	aaaactttac	aatcatttaa	caataaactc	caaaccgaa	780
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<210> 868

25 <211> 783

<212> DNA

<213> Arabidopsis thaliana

<400> 868

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	aaagtcat	caaacatgaa	accaagccct	cactgtttta	aacaagcacc	acaaggctaa	180
	agtgtgtcaa	aagaacagca	aacagaagcc	tgcaatgggt	tttagattga	tcagaccgga	240
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35	ttgaccgaa	tcacgaaaga	gcatgtggga	aggettgata	tatctgcaga	gacagcacia	360
	ggtatcccca	agttggagag	gacacctcta	atgattccac	acgggaaata	gaggtacatg	420
	ctcacgcgtt	gtgcagcttt	gctttccct	ggagtagaag	gatcttcggt	ttcattctca	480
	gatgaagggt	caattgagac	acgagacaac	caccggaact	tggtgtcttg	taatacaaaa	540
	gtaccccggt	gatttgtctt	taaattatca	atctgcttct	tgaagacctc	agaccagaag	600
40	tctttgcaga	taaacttgat	tgcctctaga	tggtcactga	accttgggtc	ttccatagtg	660
	tacctctcgg	agagctgggt	gccgacctga	taaccaatgg	cctcgatcct	cggagcggcg	720
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45 <210> 869

<211> 783

<212> DNA

<213> Arabidopsis thaliana

50 <220>

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<222> (1)...(783)

<223> n = A,T,C or G

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20 <210> 870
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 <223> n = A,T,C or G

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35 cgtcggttga gctgggtttg ttctgttttt cccgaattac tctagctttt tgtccaagcc      300
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40 caacatctag agattgatgc tgtgttgctg agagttatcg aatcagatca cttcctcttg      600
   cttttaaagt ttgtgtttnn tttccttctt cttgttggtt ctttatgcaa gtgttggcat      660
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45 <210> 871
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50 <400> 871

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55 tcggaaagag gaaatcggat tacgttgcca gtgagattcc tagagatggg attgagtctt      240
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5	aaatggcgga	ggttacggtt	aacgcgacgc	cgtttccgca	ccgaagcaag	ctttttaaga	360
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<222> (1)...(776)

30 <223> n = A,T,C or G

<400> 887

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   tcagagcggt tctcaatgcg tcgccttctc aaccgggaat ttgtgggtac agaagccaat      240
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   gagagctcgc caagctgaga agaggcgtgt ttacaacaaa tctaagaaat ctgaagcccg      360
   tacccgatg aagaaggtct tgggaagcact tgaggggctc aagaagaaaa ctgatgcgca      420
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   tttgttacta gatctttcaa aatcaaaatc tgtttcttta taatgtacat ttagtcgctt      720
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   acagagattc atctattgat ctttttgact ttttcaggaa ccagagatga aaaattatag      180
   ttaagaaacc agagagaccc tcttaacgac aacaacctct ctgtacacaa gacaacaaac      240
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ccactaccat cttaaaacttc tccttataac tcacgcttct ctgctttctt ctctcaaagt 180
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 10 ggatagttgt aacaagaagg acttgaaact ccagcttcca tctcagataa agaaacaaaa 720
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 35 agttacattc ttatttcttc atcatctata tgcacttagt cacagaatac cancaatgan 720
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40 <212> DNA

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 cttgagggtta gtctgatcag tggcaaaggc ctcaagcgct ctgattttct tggtaagata 180
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 tatttaaaatt aaaatgtatc atgatttggt ggttggtggg aatcttcttg atttagtaag 720
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	tttcccttga	ttttttgtgt	gtatatctaa	tcatatattc	taggtgttta	tcttgtgtaa	720
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	cggtgacgaa	gctgatgaac	tcggagacac	actcctgcat	cgtctctttg	gcatctttag	720
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5	caacagaaga	gcttgaagca	acgaaataca	cacaagagct	tcaagacccc	aataaaacaa	180
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	ccagtggcta	aagacggggc	gaatccgtac	attctctggg	tgggtggagag	agcnnagaga	720
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25	aagggagaga	agatcaaaga	gagaagcaaa	caaaaaacgt	cctaaatctt	gattccaaaa	180
	atcaccatga	tccatgatcg	ttttgctttt	caatgttcgt	acaaataaac	aattcaaaag	240
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	tgtgtgttaa	aaaaaaaaaac	aaaggatcca	aactttgaga	atctaaaaaa	catttttcat	420
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	tcttccgttg	ccttcaatgc	tttcccatag	atagaaatca	actcatcaat	ctcttcaggt	540
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 aagtagacac ctgggtcagt cagtctggaa agaattggtat gcgtcgtgat tggc 774

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 55 tatttcgaca aaattaaaag agaaactctc tatggaagag aggtctcatg gataccaatg 300
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	cagatcgctc	gactcatcag	agtttggttt	gagcttcttg	gctgcattgg	tttcttcaac	600
	aaatgatgct	tcgttggtat	tgacaagcat	tgaagagatc	tcgggtgttt	tagggccgtg	660
10	atcactccac	ccgaactcag	aacagtcgaa	ggagttactg	ccctgatcgg	aactgaaata	720
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<210> 903

<211> 773

15 <212> DNA

<213> Arabidopsis thaliana

<220>

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20 <222> (1)...(773)

<223> n = A,T,C or G

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	taatacaata	ctgacgcagt	ctggaaaaat	taaaagcagc	taaacttttt	tccggagatt	180
	tcgtgacttc	ttcttcatct	tggttggtct	ctagtaacga	ccaatacccc	agaccctgac	240
	aactccatca	gtgtaaccac	tgaacaatgt	gcttccatct	gactccagt	tcaagcttgt	300
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	aatgctattc	tcagtagcag	cacacaacca	gtatctgtta	ggactgaagc	aaagcgagtg	480
	aataatcgaa	ccgcctcaa	gcgagtaaag	cttctttcct	tcagccaaat	cccacaacaa	540
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	gttgaggtaa	ccagagtgc	caacaagaga	gttcctcagc	ttacagttct	ggagattcca	660
35	aactttcaca	gttttatccc	aagaagcaga	tacaatagtt	ggtacaagag	tattaggact	720
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<211> 773

40 <212> DNA

<213> Arabidopsis thaliana

<400> 904

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	ggtgaagagt	cttcattcgt	gggtcctccc	tcagccatgc	atctcactcc	caccggataa	600
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55	gtgggttaatc	caccggcgaa	gactgattgc	atggtgaacg	atgctgttgc	catttctaaa	720
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<210> 905

<211> 773

<212> DNA

<213> Arabidopsis thaliana

10

<400> 905

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ttaaagaggt	ggtcgtgggt	agcagccttg	atagcatatt	catggatgatg	gaatacatgg	180
15 aacatgatct	taaagcattg	atggagacaa	tgaagcagcg	ttttagtcaa	agtgaagtta	240
agtgcctaat	gcttcaactt	ttagagggcg	tcaagtatct	tcacgacaac	tgggtgcttc	300
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<210> 906

<211> 773

<212> DNA

<213> Arabidopsis thaliana

30

<400> 906

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aagcagagca	cggatagcga	gtttaatagt	ttcttgccca	gaggattctt	tgtagtctct	180
35 ctcgaggaat	tccctaatag	agttggagtt	tctgcccgtg	gcattagctt	tccaagcaga	240
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45

<210> 907

<211> 773

<212> DNA

<213> Arabidopsis thaliana

50

<400> 907

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<210> 908

15 <211> 772

<212> DNA

<213> Arabidopsis thaliana

<220>

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<400> 908

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40 <211> 772

<212> DNA

<213> Arabidopsis thaliana

<220>

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<223> n = A,T,C or G

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cactttcttaa tgtgtacgtt acgttttctg tccagtaaan nncttatttg ctctataagc 720
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<212> DNA

15 <213> Arabidopsis thaliana

<400> 910

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tgtttggtgt gtgcttgatt cagccaaacg gtaaacgcga ccgtttcttt gatttgaatg 720
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<211> 772

<212> DNA

35 <213> Arabidopsis thaliana

<400> 911

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<211> 772

<212> DNA

55 <213> Arabidopsis thaliana

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<223> n = A,T,C or G

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 10 ttttgtatat tatcttgttt ttttaattat gcgtaatcaa tttttattgg tgtgagtttg 720
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<210> 915

<211> 771

15 <212> DNA

<213> Arabidopsis thaliana

<400> 915

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<210> 916

<211> 771

35 <212> DNA

<213> Arabidopsis thaliana

<400> 916

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<210> 917

<211> 771

55 <212> DNA

<213> Arabidopsis thaliana

5
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 ggtaattca ggcaaggcaa tgttggtgtg taatgattat tcaaggtaga tgttagattt 720
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tgaagctgat gtgattgctt ggactagttc aaacgggggt ccgtttcaca aggattacgt 660
ggtgaatcct ccagagggaa atggacagca agatttgtgg cttgctcttc atcctaacc 720
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15 <213> Arabidopsis thaliana

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35 tggagattgg aagcaaaaagg taggaggaga agagaagaag catagtga 768

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<211> 768

<212> DNA

40 <213> Arabidopsis thaliana

<400> 923

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ttagtthttac atgtacaata cttgaaatca gattgttgct aggcctcaag ccttgtctca 720
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55 <400> 926

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	atgcagcgtt	agatgttgtc	caagacctag	catggactac	aagtgccatg	ttcttgaagt	300
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	atgagcttta	tataaagatt	cttctgaatc	ccttgtatct	tcctggttct	cggataacgt	480
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15	caattgtttc	tgttttcttt	ttgagtgcc	ggatttctgt	tatttctaac	ttgcaagcaa	660
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20 <211> 767

<212> DNA

<213> Arabidopsis thaliana

<400> 927

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	tctcttttta	agagaagtgt	gtgccattac	acaatataac	taagcacacac	aagatgagct	180
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35	cacagctaac	gtttgtgaga	aaaaagcagc	accaatgggt	gattcctgga	attcaacaaa	660
	ctgatctttg	acaaaccgta	acacaagact	tgattttcca	gcaccaacat	ctccaagcaa	720
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<212> DNA

<213> Arabidopsis thaliana

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5 aaacggcgctc gatttgggggt ccaccgcctc ggtacgagtc ccgatcactt ctccgtataa 720
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25 cgaacagaaa gacttggttt tattatcact tgatgctttt tgggccgaac agcaattttc 720
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30 <212> DNA
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<400> 931

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	aaccgttg	aa	aaaaaaaa	ag	gttcagat	ct	gtcagaga	gg	660
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 aagatgntct actatttcaa gtttcatcga tctcggaaag gcttcgggtt ncatttgcag 720
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	cagaccacta	actggaatag	attgtccact	gtactcagat	tctttccatt	gtcccaaaag	720
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35 <212> DNA

<213> Arabidopsis thaliana

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	atgactccaa	agcccttact	gttgttgaga	aacctgtaga	agagcctgca	cggcgaaaac	240
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10	tgtctttcgt	cagagcgtgg	gaagaaagcg	aaaagagcaa	agcagagaac	aaagctgaga	360
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	ataaggttgc	agcgattcac	aaggaagcag	aagagagaag	agcaatgatt	gaagctaagc	540
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	ttgtaactgt	aaagtgtaat	caaatttctc	tgttctcttt	aatggcttgt	aatgttgttt	720
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	gttgctataa	caggatttta	attccttatg	gggtatacaa	gtaggaacac	gagctgctcc	600
35	atgagaatgg	ttgcagactt	tgtgtagtgt	ctatatgtat	ggattcaaac	acatcctcca	660
	aaatgtccct	ttgcctttgt	gtaaataatg	atcgctacaa	caattgtacc	tctactatga	720
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<223> n = A,T,C or G

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	ttctctaaaga	cttttagctt	tttgtatagc	tgtgatgctg	atcgcnntct	cggatgactt	180
	cttggcagct	actagctaaa	gatatttttg	ttcctcgtga	gnnntgtggc	gactcctcaa	240
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	agatgttaag	ctgctctgtg	tagtgaaaat	tcgtgtaaca	agtcgctgat	aatctcgaag	420

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caaccctgat gaaacagata ttcccatttt ctggttgcaag tcaacaatac tgaatccatc 660
ttgtcccctt tccttggtcca actctctctc tgactcttta atttcaggag ggttttacaac 720
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<212> DNA

15 <213> Arabidopsis thaliana

<400> 951

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20 tttcaagacg gctacccgac acgtgcgaaa acagacagtg atagtttcca ctttccacta 180
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25 cgtgtcagtc acaggcttta acccgctctc gatatcgctt cgtcgcttct cgatgacacc 480
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acctattggt ttatcagctc cggtagcttt ccaatatcca gtaccagctg cacggttggg 720
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<211> 762

<212> DNA

35 <213> Arabidopsis thaliana

<400> 952

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cgagagcaag taaaccgggt ggatttagaa aaccgtgagc tcgggaaccg actccggtta 540
15 gttttacacc agcttcaacg agtgaattcc gacaataacc ggctcgtgac agaacaagag 600
atactccggc taagattgtc ggagatgcgt cggattctga tcattagaca acttcaacaa 660
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<212> DNA
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   tttattcctc cccgatcccaa ccaacccac caaccagata agacacttag gaactgagac 180
   gttcgaattt taccgaattt cttcagtttc ttaagcattg agtctttctt tgagctcagc 240
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   gtgaatgatg agtgcaagat ctttggtcat tttccctgac tccactgtcc caacacaagc 360
20 ggcttccagc ttctcagtga aatccaagag ttttgcgttg tcatctaact tagccctgtg 420
   tgcaagtcca cgagtccaag caaaaataga ggctatgctg tttgtgctgg tctcaccacc 480
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   caagaaatca ctttgacat caccatcata gttttgcatg cccaaacata gcctccctca 660
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30 <212> DNA
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   catggaacct agaagatgat aacagtaata ataaaagcaa aaggcaatca acggtaacga 180
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   acaacaaagc cctgcttggc cttgtaacct aaacgacgag ccttatcagg acgagtaggc 660
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	tgtgatgtat	gaatctttct	tgtgtgacct	atgttcttag	tttttgaata	taaatgtgtg	720
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55	tcgtcttaac	gtgaggccaa	acttctgaat	gatatcatct	ctaaagacta	agtgaaatcc	660

5 tataaaactca atatgctcct cttacggttt ggtttctaag taatctcggt tattgacaat 720
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<210> 963

<211> 760

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

15 <222> (1)...(760)

<223> n = A,T,C or G

<400> 963

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 ggtggaagag aggccgagag ctcttgacct tgacagggga tctcgagctg tttgaaagag 180
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 gattgctgaa tttttccagt tcaagtttct gtttcaccat gcctttgatg atgattcttt 660
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35 <212> DNA

<213> Arabidopsis thaliana

<400> 964

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 ttctctctac tcagagctcc tcttctccga tcaaaaaccc tcgagctttt aacaatggag 180
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<210> 965

<211> 759

55 <212> DNA

<213> Arabidopsis thaliana

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<400> 965

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	ccacgattgc	tctgcgaaac	tcatcattgt	gaagtataaa	ggaagacacg	tgtccacctg	180
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	gtatgtatcc	atcatcagtt	gcagcaacaa	agataacagc	atcagggttt	ttgggaatag	300
	ggaagcgagt	gacgtctgtg	agggagagaa	cattccgcat	ccgctctctc	acttcatcaa	360
	gagtcattgt	gatcttctgt	gctgcaagtt	cctccctcag	tgcctcccaa	gcagtcccat	420
	actttaatat	tccttcgcag	aatgcaacaa	cagcagagtg	cggagatagg	aatggaagtg	480
15	ttgcaactgg	tggttgatga	agcgatccaa	ccatcgaaag	atgtactcct	cccatactta	540
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	gggactcttc	gattgttgcc	ctccctagca	aaagtagatc	actaacacag	aggagtctcg	660
	caccgcattg	aagaaaaggga	cgcctttggc	catagaaagg	gctgcagtgg	cattatcttt	720
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<210> 966

<211> 759

<212> DNA

<213> Arabidopsis thaliana

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<400> 966

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	ttcttgacat	gtttcagcct	tttggaactg	taatctctgt	agaggtatcg	cgaaatcctc	180
30	agacgggaga	gagccgtgga	agcgggtacg	tgacaatggg	ttctataaac	tctgccaaaa	240
	tcgccattgc	ttctcttgat	ggaacagaag	taggtggctg	ggaaatgcgg	gttaggtact	300
	ctgttgacat	gaatccagga	acaagaagaa	accctgaagt	cttgaactca	actccaaaga	360
	agattctgat	gtacgaaagc	caacacaagg	tctatgtcgg	aaatctccct	tggttcacac	420
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	aagaacgtga	tgcggtctta	tcattcaatg	gaacacaata	tgaaggctgc	agaatcatcg	600
	tcagagaagg	tatcgagaag	agtgaagtcg	aaaccaactg	ttctgctttt	gctgcaaaga	660
	catctcttgg	acacaaacaa	tgtgtaatga	atgtcttctg	atttcttcga	caagtaacct	720
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40

<210> 967

<211> 759

<212> DNA

<213> Arabidopsis thaliana

45

<220>

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<222> (1)...(759)

<223> n = A,T,C or G

50

<400> 967

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	ggataaaaga	tgatccaact	gtgaacctgg	cgggaggcaa	aatgcagaca	gtcacttcct	180
55	cttgctgttc	ccaatactga	ggagctcaag	gctctggagg	gtaatgtcac	gagcggctct	240
	cgttggtgca	gcttttgtgg	ctactgagga	ggacgaagga	gcgaactggg	tcctcagagt	300

5 tgtagaagac cgatcattgt ttgggatgag tctgcttaat cgattctctg tgaaatcagc 360
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 agataaagag tttgggtctct cctgggttttg cgtgtccttg gatgcaagaa cattctctga 480
 ggttcttggt ctactagact gatcagcttg aacgccggtt cctgagccat ttcttctggt 540
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 10 cgctttgtcg gcagatggta ctggaatatt catagctggg cttaaagtgt gctaattggaa 660
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<210> 968

15 <211> 759

<212> DNA

<213> Arabidopsis thaliana

<400> 968

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 gcaaatacagc cgtttctgct tctgacttct tctactccgg tttagggtggc cccttagaca 180
 cgtcaaacc taacggagta accgttgctc ccgccaacgt cttaaccttc ccgggtctaa 240
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 aacctgagat tccaaacgca gtcctgacca gagcgtttag gactgatgat acaactgtgc 600
 30 agaattctcaa gtccaagttt gctgtttgaa tctttttatt tatgttttct aaaataatct 660
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<210> 969

35 <211> 759

<212> DNA

<213> Arabidopsis thaliana

<400> 969

40 tttttttttt ttaatacagc tctgcaagaa cttcaaactc aaggaaaaca caagtcaatg 60
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 tttggagtga aaatccaaga ggaagatcca ataagtaagt aaggaaagaa ttatgggttt 180
 tcacgggtgt ttagagatga tcacagatgg cttttgtgaa atctgttgta gttgaggaac 240
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 45 tttgctctgc ttgtttgttg agcttcaggc gccgcaacat catcactcca ctccagtagca 360
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 50 aatatatctc aggatacttc gcagcaactt catcacaaca ctgcaggaaa agaccatcag 660
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<210> 970

55 <211> 759

<212> DNA

5 <213> Arabidopsis thaliana

<400> 970

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10 aacccacccc gtgtttgtat ctagtaaagc caaatgaaat ccttagtagt ttggttatgg      180
ctgacttggtg ttttagcttct aatcttctgg tctcacaccc aaatccttct tacctcattc      240
attttttttg gcagcagcga cagaatcaca caagtctagc tttctcaagg tttccatggt      300
gctggtggag gtggtggagt aggggaacaaa ggaggaacag ctgagaaaaat agtggttttg      360
tctatcttac cggtggtcttc ttcttcaccc gataatgcc aagagctgc gactagacca      420
15 gcattgcctg caagagtcgg ttcagtgtag ttgtagtcca tacggacatc acggtaccgc      480
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gctcctctgt gatgcacatg tcttggtgat ttgtgcca aaccaacgac ataactcatt      660
ttccgagggg ttttaccag tatataatca atctgggac tagcaaagtc acgtagcaca      720
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<210> 971

<211> 759

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(759)

30 <223> n = A,T,C or G

<400> 971

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35 taaacccaag ccggtcccaa gtcccaaacc caagccggtc ccaagtcctt cagtaccaag      180
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actcaacatt caattgggtc agccatcagc tcaaccatgt tgctcgctca tccaagggtt      360
ggttgacctc gacgtgcc a ttgtctttg cactgcgctt agggctaacg ttcttggtat      420
40 caaccttaac gtcccgatat ctctcagtgt tcttctcaac gtttgtaaca gaaagggtcc      480
gtctggcttc caatgtgctt gaaggatatc agctatgcat acgatgtgat gcccggtgcac      540
aaatatcttc ttcgaaattg ttacagtatg aataaatgca tgtaagctat agagtttatg      600
ttttaaattt tgaatttggt aaagtgaat aaccaatgtg tgagagtga actttcttag      660
tttttttttt ccgtcaacgt tcctgtattc cggctctgtg tgcttttgta gcaatctatt      720
45 actattttca acccgtttaa taaaagagat tttgtacct      759
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<210> 972

<211> 759

<212> DNA

50 <213> Arabidopsis thaliana

<220>

<221> misc_feature

<222> (1)...(759)

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ccagcagatc aagttcttag aggtcttgag ggaagcttcg ctttcgttgt ctacgatact 180
caaacttcct ctgtttttctc agctctgagt tctgatggag gagagagtct ttactgggga 240
10 atttctggag acggatctgt tgtaatgtct gatgatattc agatcataaa gcaaggctgt 300
gctaaatcgt ttgctccttt ccctaattggt aaaccaaacc ttaagttttt cattagccct 360
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15 tgatgcttgt tctaagatca atagtatccc tagaagagga agtgaagcta actgggcgct 600
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20 <210> 973
<211> 758
<212> DNA
<213> Arabidopsis thaliana

25 <400> 973
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35 tttatctact gcggatcaca ggattaaggt ggaagcatca agcttcaccc gcaggtccaa 600
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40 <210> 974
<211> 758
<212> DNA
<213> Arabidopsis thaliana

45 <400> 974
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5 gatattgtgt ttgcttgagt atatccttct ttttcttaga attgtaatcg tatgggcttt 720
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<210> 975

<211> 758

10 <212> DNA

<213> Arabidopsis thaliana

<400> 975

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agaacacaaa ctttgaatct tgcaagaaac acaaatttga gtgacattca agattttttc 180
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<210> 976

<211> 757

30 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 976

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gagtaatcat catcgagtgt ttattacgat tatgtcctta acgaaatctt cagaatcagt 180
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55 <212> DNA

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 20 tctctccacc caacaaacca acattaagct cagctaaatc ctgagcttc aactccataa 540
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 <210> 978
 <211> 757
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 <223> n = A,T,C or G

35
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 40 ttgtgaacaa ggtagatatt tctggaatta cggatgaacat aacaaccata acacggattc 240
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 aagactctga ttttcacgag agatgaagag gaaacgagat cgtactcttc gattagattc 480
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 gctaactcgg aaaatgagac ggagcgagga acggcgagga cgcgagtgtg accaccgttg 660
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 <213> Arabidopsis thaliana

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 <223> n = A,T,C or G

<400> 979

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	agacatgggc	atcatggata	gagagtacag	ttgatccaaa	caaaactcgg	gttttgtttc	180
	gtacatttga	gccatcgcat	tggagtgatc	atagatcatg	caatgtgaca	aagtatccag	240
	ccccagacac	tgaaggaaga	gacaaaagca	tattctctga	aatgatcaaa	gaagtagtta	300
15	agaacatgac	gattccggta	tcaatattgg	atgtaacttc	gatgtcagcg	tttagaagcg	360
	atggtcacgt	cgggttatgg	agcgataatc	ctttggtagc	tgattgtagt	cattgggtgtc	420
	tacctggagt	acctgatatc	tggaaatgaga	tcttgctctt	cttcctcttt	agacaaccag	480
	ttcagtgaag	tggataattg	caacatagaa	aaaaagatta	acgacccttg	aagactgaat	540
	ctctcggagc	taattgttca	tgtttcttct	gagagctaaa	gacagataan	ngggtcacaa	600
20	atttttggtg	aaagttaaaa	atgattctta	cttaattcat	tcttttattg	tttcttctac	660
	gtccttcttc	tttttatttg	taatgtcacg	gcttgataac	tattcaacac	gtaatgtcac	720
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	gtcttatgtc	tagcatctct	ggctttttta	gtagtgttgg	ctggctcttg	cccggcagcg	180
	ttgtttccat	gagcgtcggt	ggccggattt	ggtttgtatc	caacgttggt	ttgtttttct	240
	ttcaataatc	tcatagatct	tatgttggtg	ataatggttt	aggtgatttt	tcgcttaaag	300
40	atctttatta	tccaattcga	tcttttgagt	ttgagatttg	caggaatcaa	tttagagatt	360
	tgcactctaa	gttgaagaaa	agaagaagtt	ttcgttgcat	attaatattg	cccttagctg	420
	ctaagttttt	atctggaagt	nngattgggt	tgtttaaggt	gaaaccacga	agaatcaaac	480
	ttgctttcat	tatcaatggt	gattttttct	accggaatca	atctcagacg	gcaaaggaag	540
	atgtcggaaa	tgctttttag	ttactcatcc	aaacgtgtgc	tgtgttggtt	tcagctgttg	600
45	acacgtaaga	ttggttgagg	ccacaatatc	agttcttcat	ctttaagcaa	tgttcttgga	660
	ctcatttagg	acttcaaatg	ttcttgtaat	ctcagtgat	gttgggcttt	tggtttttta	720
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5 <223> n = A,T,C or G

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10	ctggatcggg	caagaccact	tactgcaatg	gcatgtctca	gtgtcagtgc	atctctctaa	180
	tgggcaggag	atcctgcaaa	tnntgcatta	ccgtatccat	ttttaagcca	actcttacia	240
	aatggtaaaa	agaaatcagg	aacttgccgc	tacttggtcc	actgcggtta	agtcaagtaa	300
	gcatgtagat	ggaagaatag	tgaccagccg	ttgagtcaag	agtgcagaca	ggtagatcct	360
	tgcgctctct	tgggtcaactg	cagctactta	ctatcttggg	tccttgccct	ccaaaactgc	420
15	tctgctaaaa	cgttggtagc	tctctgggaa	gatgaggaac	taaagtcatt	ggctcctctg	480
	gctccctcag	ctatacatgg	aagaccatga	atgaatctag	aggagagaag	ctcagcaacg	540
	gtcaacagag	cataacaaat	gcgtatggct	tcagtgcaga	tcccgggcca	tttcttagat	600
	ttctgagaga	gacagagtgg	ctgaatgaga	atgatcatag	acattgtttc	tctcttggtg	660
	tcaagagagg	agatgggtgaa	agtaaatctga	atgtttcttg	gatcacaaga	ttcaagtact	720
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30 <223> n = A,T,C or G

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35	gataaagaag	cttttgctac	attacatgaa	atgacatgag	atgattttgc	ttgtgacaaa	180
	caagtctcta	tcaaacattt	tttcttttcg	ttggttcact	agtctcttca	caatctcttt	240
	ctttgtcttg	tttcaatagg	gtttcaatag	gggttcaata	gggtcccttg	acttgtttac	300
	tatgtctgaa	tcattcattc	atcaggngaa	atccaaaaat	ggaagtccca	aacgaaacta	360
	ttcatttaac	actctacttt	cttcttgat	ccaaattttac	cctttgatgt	agtttaatat	420
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	ttttcgatta	gacttcttct	caaagaccaa	cttgaagcgg	ttgatcgttc	ccgacattat	540
	ccccctcgcg	gagtccattt	tggtccccac	tttgtcaagc	aagcggttat	gattcttaac	600
	ttcttcatgt	atgtctccag	tcactctctt	gagaaacgaa	actctgtcct	gaagattttc	660
	caaagcttca	tcattatcac	gttcgtcatg	agcatacgaa	gaagaagctc	tcaagcgacc	720
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aagatgagtc tgatgatgaa gatgagtcctg aagaggatga tgactctgag aaaggaatgg 180
atgttgatga agatgactca gatgatgacg aggaggagga ttctgaggat gaagaagagg 240
10 aggagactcc taagaagcct gagccaatca acaagaagag gccaaatgaa tctgtatcca 300
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agacagaaga gaagaagaaa ggaggacaca cagcgacacc acaccagct aagaagggtg 420
gaaagtctcc tgtgaatgct aaccagagcc ccaagtctgg aggtcaatca tccggtggta 480
acaacaacaa gaagccattc aactcaggca aacaatttgg tggttccaac aagggttcta 540
15 acaagggcaa gggcaagggt agagcttaag gacgtggatc aaggagaggt tttgggtttt 600
cgagtagatg atgaaaacac ttggaagtgt ggttttggat tnntatctta tnntattagt 660
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tacaacaata cccccaatgg taagagtata tataatagga aataatgaaa ctgtaaactt 180
caggaatctt acggatcacc ccaatgaaca ccagagcaag cagagtagaa gaaaccacag 240
30 atcaagatat ataaagacac aatataagag tatagagaat caccctgtct ctttaaaaca 300
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ggaggttcaa gttgattcca agaattgttag ccttaagagc ggtgcagaga caaacggctg 480
cctcaacatc agcgagtcct tggatgaggc tgcagcatgg ctgcaccggt ggcttgccaa 540
35 ggggtcaagtc caggaggccg ttgagcacat tagcgcagac accgagcttg aggggtgtctt 600
tagggcactt gctcgagcca gagctagggc ttggggttgg tttaggagtt ggctttggct 660
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tgaaagattt cgtgagacat acaagagaag acggttcaag aactcatcaa aaaaggcaac 180
aaacaagaat ggtgaaactc ttatggaaag agaaaaaaca gataagccta tacctttttc 240
55 aagcgatgca gaaccgtcgg ttgtaactac tggaacagcc agtaaagaaa ctctaggatc 300
atctgtttggg gttgttgaca ttggtgtcaa caaggttgct tacttttttc aggttgcttt 360

5 gcccgggtgtc cgcaaagatt acgggtgaatt caactgtgag attgaatcag atggaaaaggt 420
tatactggag ggatcaacta caacaggcga aaaaaatatac aagagacatt ctccgggtgtt 480
cgagatgaat atccggaagc tgtgtccgcc tggacctttc aaactgtgct ttaanctccc 540
gggaccagtt gatccgcggc tattctctcc taacttccga tcagatggta tcttcgaggg 600
agtcatacat cgacacaaaa actcttaatt aaaccggagg ttcctataca agtttnnnac 660
10 ttaggancna tgtagatctt ttatctttat gttnnnggac atagaaggaa agcgaatcaa 720
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<211> 755

15 <212> DNA

<213> Arabidopsis thaliana

<400> 986

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tttagattac aactaactcg taagagtaac tttaaaatgc tattcttaga gaggaagttc 180
tccactgtct gcaattacga ctttgcctct aggagttccg ctttgtttgc cctcagcttc 240
aatcttataa actacatcca ttccttgac cactttccca aacaccacat gccttccatc 300
taaccagctt gttgtcaccg ttgtgataaa aaactgcgaa ccatttgtgt cttctcccgga 360
25 gttcgccatt gaaagtacac ctggtccagt gtgcttcagc ttgaagtctt catcagcaaa 420
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<211> 755

35 <212> DNA

<213> Arabidopsis thaliana

<400> 987

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gtggctcgac gcggctctag ggcaaggaa aaaaaaatt ccaaaaatta attccaaaaa 180
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45 catcaagtta ctgttttttt tattctgagt gaaattttac atttttcaca ggtgattgga 420
accaagacaa agatctgtat agttatggaa tacgtttcag gtggtcagct ttcagacaga 480
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50 gtaacaattt ctaattttct agtcacacaa agcaaaaatat ttgggtttgt aacaatcaaa 720
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55 <212> DNA

<213> Arabidopsis thaliana

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<400> 988

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cggctaacca	tacgcttctc	ggaagtcgaa	gagggtgtct	tagaatcaaa	gcgatttcca	180
10 ctaaatggga	accgacaaa	gtactgtctt	ttccgaaaaa	tgtattgggt	tctctgtttt	240
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cagagttctt	gttcgtcttg	aagatcttcc	tattgtcagt	ttagctcctt	tattgtctga	360
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15 tgcctaaagc	agctgtgaag	tttgagagat	acctaacagg	agagattata	tctgttgggt	540
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atgaggtcga	tttgggaacc	gatgctaggg	attgcttctg	taaagagagt	gacttgttgg	660
ccttcggtga	gtgaagtctt	gtccaagagg	gagagatttg	aagattttac	aagttttctg	720
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30 tcactaacat	cgtacgagaa	accattgtaa	atgagtttaag	gtcggaccct	cgtatcgctg	240
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55 aggtttgatg	aagggagtgn	nnacgagtgt	agtacaagtg	cttcctctct	tcaagtgcctn	240
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5	tcocctagttt	cagtgtctca	aatatacttc	cagatccagc	gtgactaata	acaagagatg	360
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	catccgctcc	atcacactta	gttgggaaaa	agattcctcg	acccatttga	ataagaagat	480
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	tacaaaagca	ccgatcgatc	ttaagaggca	gatccaagaa	tcttgctttg	ggatgaatcg	720
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15 <211> 755

<212> DNA

<213> Arabidopsis thaliana

<400> 991

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	aattttctggt	tttgaatctg	aataatttca	agttcttgtc	caaggaatat	aaccccacca	180
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	tctttcctga	cacaaaaata	agcagtacaa	tctttggtag	tttcatccta	tatatcaatc	420
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	tggtctttgg	ctctctgatc	ctcatgatta	cagcagcgaa	acgcttgggg	ttatattcag	720
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	tatagttctt	gagctttcgg	gtataactcg	gagacaacag	cagcaaccca	ttctttggta	720
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15	tcccaagtct	cagagaacag	agtcatagcc	attgatctaa	tgtacaacac	ccaaaagaag	180
	agaagattga	ttgtttgggc	taagaaaaca	gaaagagcgt	aaccaacccc	gtagtagaga	240
	gtttcagata	accttcttct	tctcgaaaaa	cgtcttcaag	tgcaaaaact	gcatccctgc	300
	aactcctatg	cagacgaaaa	acgagagaac	actcaaccac	gccatttttg	tgtagtgga	360
	ccggttcaag	tcttgcatct	cttcttccct	atctctaaga	taatacatct	cttcatgaat	420
20	cgagttaaca	gtatcaagaa	gactctttac	ttcaaattcc	ataacttcga	cttgactctt	480
	cttagcaaca	ttagccagc	ttttagattg	aacaccagtc	ttccactcaa	agtcaatact	540
	caacgaaacc	tcaggcttat	gatcaacagc	agtgaacaaa	gccatgtaat	cacctgcttc	600
	aacagccgag	aatgcgaatt	gtcctgaann	nacttggtcc	gcgtgatggg	aattgtnanc	660
	ngaattagac	gtcacnnnna	cggaaat	gtgagttt	ggtaaagctt	gaccttcgtg	720
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<211> 753

<212> DNA

30 <213> Arabidopsis thaliana

<400> 994

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35	attcagaaac	ataagtgcaa	taatggactg	tgtaggtctg	gagaaatgcc	gtctatgggg	180
	aaagcttcag	attctcggtc	tcggtaactg	attgaaaatt	ctattcactg	tcaatggtga	240
	agacaatttg	cgtcataatc	tcgaattgca	aaggaacgaa	gtgattgcgc	tgatgaatct	300
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	aatcgcaggt	ggacatgcct	cttcagggaa	cagcttttgg	caaagaatag	tgacatctat	420
40	agcgcaatca	aaagctgtat	ctgggaagag	aagctagatg	ttcaatgagg	tctggggggt	480
	gtgggatcaa	gcgcagtgat	ggcgggagag	tatactttgt	tgtaaagtaa	agagagggtta	540
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	ttgatttacc	ctttaacgtg	aatttagaga	atcttacatg	aaactaaaaa	tattgtacgg	660
	attttgaat	ttgttgacag	tcccttctga	agtaaacata	gaatgggtgg	aaaaacgtga	720
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<212> DNA

50 <213> Arabidopsis thaliana

<400> 995

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	gcgcgagaat	ataataaccg	gtaagctaac	aaaagaatca	acaatttaca	tggtatgttat	240

5 tgcaaagggtt gattatattg tgaacaaaaa tgatttttct tacaacagag caaagtttta 300
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 10 aaaagtaaat taacataata atgagaaaaa tgagtgggtga atgcagttat ggaaggaaga 600
 tgagatgaaa gaggaggtga ttggaggtca caaaggatgg cttgtcatcg aagaagttag 660
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 <212> DNA
 <213> Arabidopsis thaliana

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 aaaaaataaa attaagaaaa aaaccatgtc gagattctga caaaacgatg aacaaaaact 180
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35 <210> 997
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40 <400> 997
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55 <210> 998
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5 <212> DNA
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30 <212> DNA
 <213> Arabidopsis thaliana

<400> 999
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